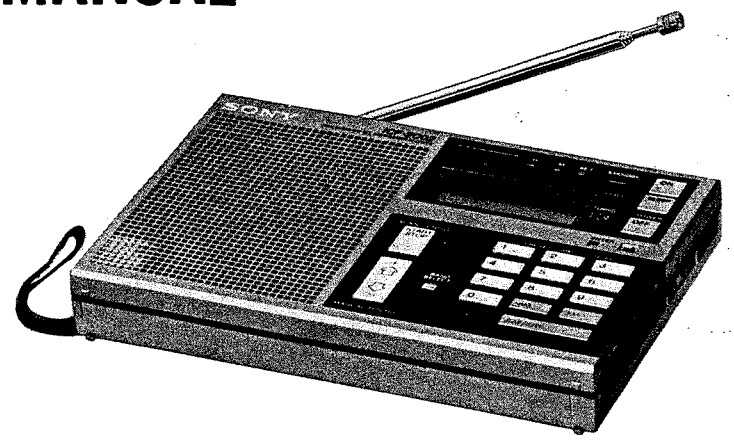
ICF-2002

SERVICE MANUAL

6711

US Model
Canadian Model



SPECIFICATIONS

Circuit system	FM: Superheterodyne AM: Dual conversion superheterodyne
Tuning system	FM/AM: PLL quartz frequency synthesis tuning
Frequency range	FM: 76.0 – 108.0 MHz MW: 520 – 1610 kHz SW: 1615 – 29995 kHz LW: 153 – 519 kHz
Antennas	Telescopic antenna (FM/SW) Built-in ferrite bar antenna (MW/LW) External antenna terminal (FM/LW/MW/SW)
Speaker	Approx. 7.7 cm (3⅛ inches) diameter
Power output	400 mW (at 10% harmonic distortion)
Outputs	Recording output jack (minijack) output level 0.775 mV (–60 dB) output impedance 1 kilohm Earphone jack (minijack) for 8 ohm earphone
Power requirements	Radio: 6 V dc Four size AA (IEC designation R6) batteries The DC IN 6 V jack accepts: • Supplied battery case for use with four size C (IEC designation R14) batteries • Optional ac power adaptor AC-9W (available in the USA) or AC-9 (available in Canada) for use on 120 V ac, 60 Hz • Optional DCC-127A car battery cord for use with 12 V car battery Computer back up/clock: 3 V dc, two size AA (IEC designation R6) batteries
Battery life	Radio: Approx. 12 hours with Eveready No. 1015 batteries Approx. 40 hours with Eveready No. 1035 batteries in the supplied battery case Computer back up/clock: Approx. 1 year of continuous operation with Eveready No. 1015 batteries
Dimensions	Approx. 184.5×118.5×32 mm (w/h/d) (7⅜×4¾×2¼ inches) including projecting parts and controls
Weight	Approx. 640 g (1.4 lb) including batteries
Accessories supplied	Earphone (1), SW external antenna (1), Battery case (1), Antenna connector (1), Wave handbook (1), Carrying case (1)

MICROFILM

FM/LW/MW/SW
PLL SYNTHESIZED RECEIVER

SONY®

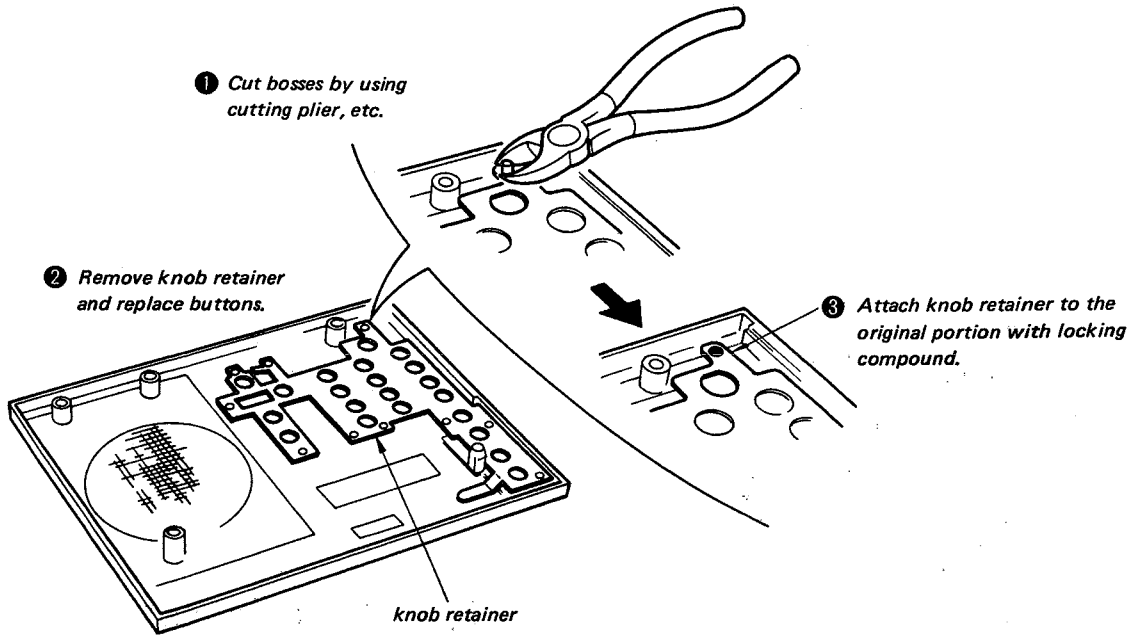
6711 TR

FEATURES

- An FM/LW/MW/SW portable BCL (Broadcasting Listener) radio with world-wide band coverage.
- Quartz controlled PLL (Phase Locked Loop) synthesizer system uses a microcomputer to make pinpoint tuning easy. The tuned frequency is digitally displayed.
- Choice of direct, preset, scan or manual tuning.
- Up to ten stations can be preset so that they can be tuned in with the press of a button.
- Band select function to immediately search the broadcast band such as FM, LW, MW and SW, and to facilitate scan tuning and manual tuning.
- Timer standby function to receive a desired broadcast at the desired time.
- Sleep timer turns the radio off automatically in 65 minutes.
- Three different power sources: internal batteries, house current or a car battery.

[SERVICE NOTES]

BUTTONS REPLACEMENT


❶ Cut bosses by using cutting plier, etc.
❷ Remove knob retainer and replace buttons.
❸ Attach knob retainer to the original portion with locking compound.
knob retainer

SERVICING NOTES

MELF (Metal Electrodes Face-Bonding) Components

Warning

If MELF components are forcibly removed from the printed circuit board with pincers or pliers, the circuit board pattern is likely to peel away. Always remove MELF components according to the procedure described on the next page. Replace MELF components with the lead type components.

MELF components are soldered directly to the surface of the printed circuit board.

MELF resistors and capacitors have the same dimensions and are distinguished by their background colors: light brown for resistors, and pink or light green for capacitors.

The MELF resistor color coding is the same as for conventional resistors, and MELF capacitor color coding is the same as for tube-type ceramic capacitors.

Components larger than resistors and without a color code are cross conductors, which are used instead of jumper wires.

1. Structure

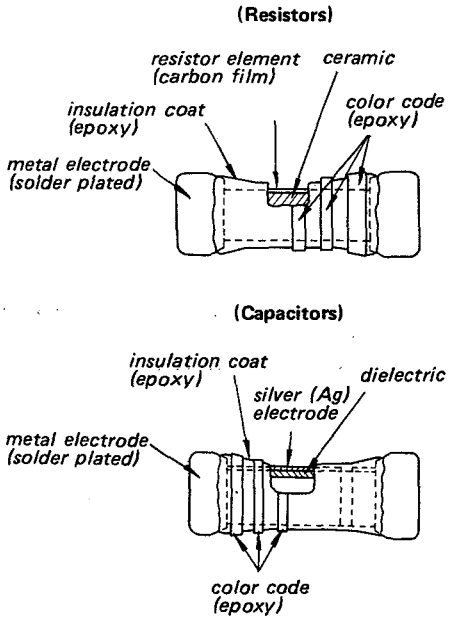
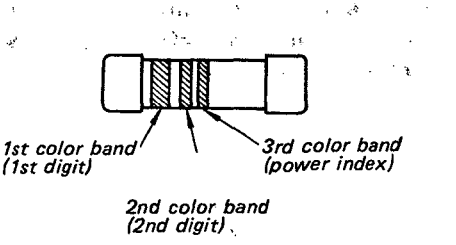
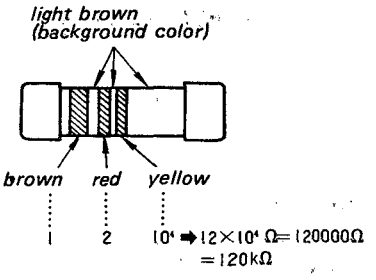


Fig. 1

2. Color Code Reading



(Example of Resistor)



(Example of Capacitor)

background color { pink .....25 V voltage resistance
light green ....50 V voltage resistance

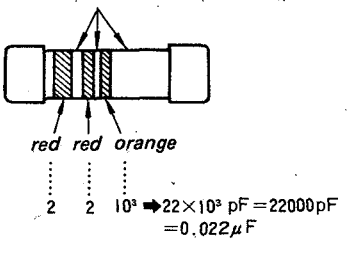


Fig. 2

3. How to Remove MELF Components and Mount Replacements

Use a soldering iron of at least 40 W with an iron tip 4 mm in diameter and file the tip down to the angle shown in the diagram.

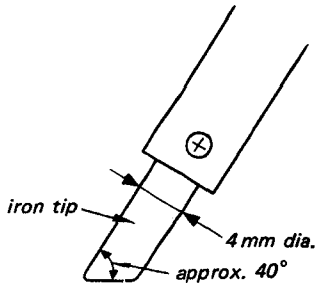


Fig. 3

1. Bring the flat surface of the soldering iron in equal contact with both soldered ends of the component.
2. The solder should melt in about 4 seconds. (The solder will melt more readily if a small amount of solder is attached to the iron tip and the iron tip is placed against the component.)
3. Once the solder has melted, tap the component aside with the tip of the soldering iron, and remove it from the board.

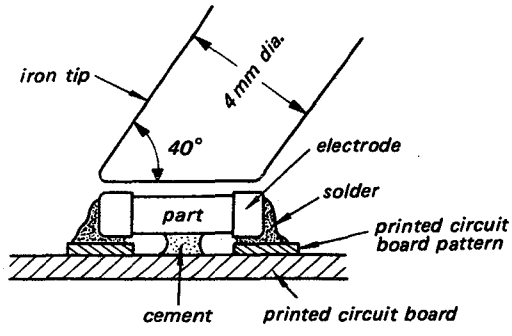


Fig. 4

4. Use lead type resistors to replace the MELF components.
   This replacement may be mounted with short leads (see Fig. 5).

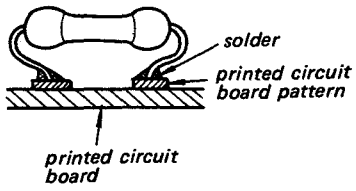
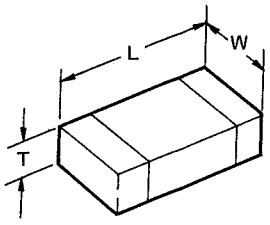


Fig. 5

Note: Use 3216 type chip components to replace the MELF capacitor components.
See page 6 for mounting of chip components.

Chip components

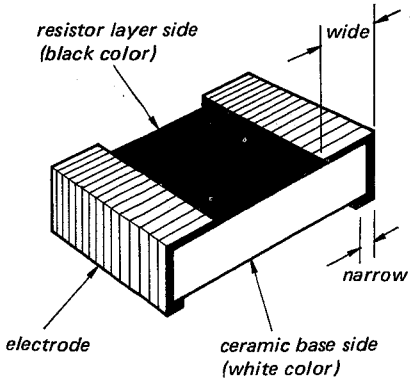
Chip components include resistors, capacitors, transistors, diodes, coil and adjustable resistors.
In this section, the types of resistors, ceramic capacitors, transistors and diodes which are used most frequently will be described.
Dimension of transistors and capacitors



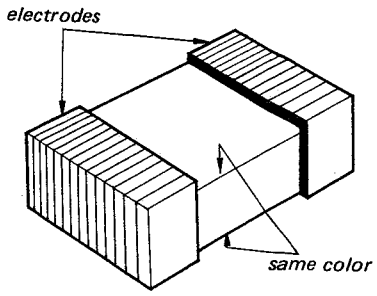
(Unit: mm)

Type	L	W	T
3216	3.2	1.6	0.45 ~ 0.6
2125	2.0	1.25	0.35 ~ 0.5

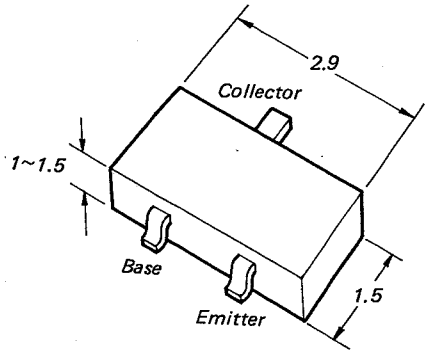
Identification



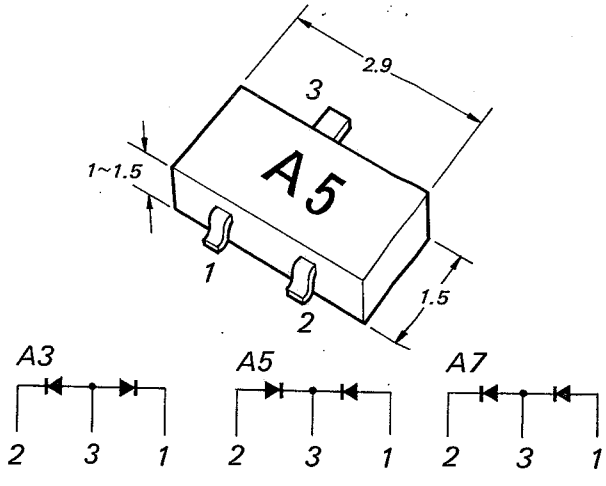
Resistor



Laminated Ceramic Capacitor



Transistor



Diode

Replacing chip components

All chip components should be connected and disconnected, using a tapered soldering iron [temperature of the iron tip: less than 280°C (536°F)], a pair of tweezers and braided wire.

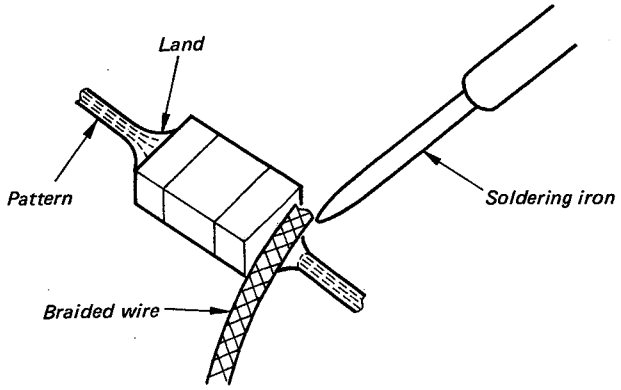
Precautions for replacement

1. **Do not disconnect the chip component forcefully. Otherwise, the pattern may peel off.**
2. **Never re-use a disconnected chip component. Dispose of all old chip components.**
3. **To protect the chip component, heating time for attaching the component should be within 3 seconds.**

○ Removing chip components

(1) Removing solder at electrode

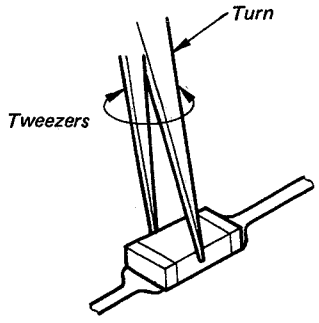
Remove the solder at the electrode, using a thin braided wire. Do not remove the solder of the part (chip component) attached adjacent to the electrode.



(2) Disconnecting chip components

Turn the tweezers with the soldering iron alternately applied to both electrodes, and the chip component will be disconnected. Take careful precautions while disconnecting, because if the chip component is forcefully removed the land may peel off.

Never re-use a disconnected chip component.



(3) Smoothing the soldered surface

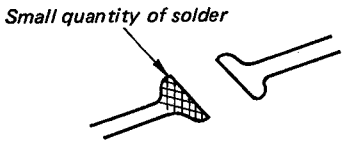
After disconnecting the chip component, remove the solder by using a braided wire to smooth the land surface.

○ Connecting chip components

The value of chip components is not displayed on the main body. Take due precautions to avoid mixing new chip components with other ones.

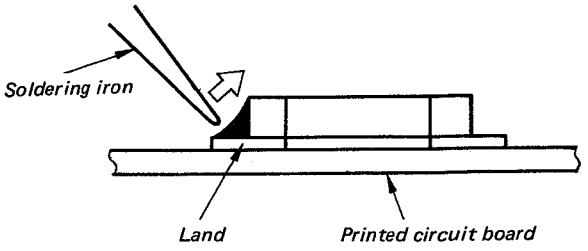
(1) Applying solder to land on one side

Apply a thin layer of solder to the land on one side where the chip component is to be connected. Too much solder may cause bridging.



(2) Speedy soldering

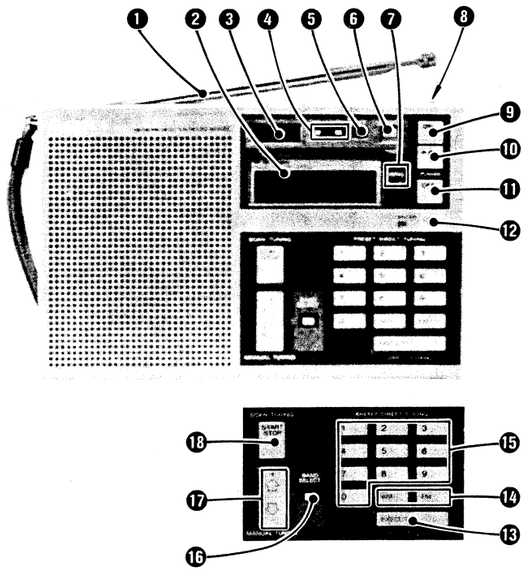
Hold the chip component at the desired position, using tweezers, and apply the soldering iron in the arrow-marked direction. To protect the chip component, heating time should be within 3 seconds.



(3) Speedy soldering of electrode on the other side

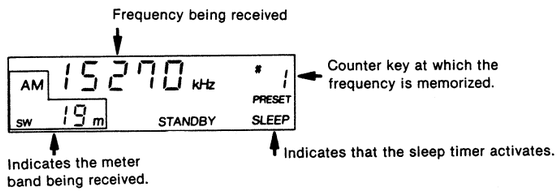
Solder the electrode on the other side in the same way as in (2) above.

LOCATION AND FUNCTION OF CONTROLS



❶ Telescopic antenna
Used for both FM and SW reception.

❷ Frequency display
Displayed as follows:



❸ Time display
Displayed by 24 hours.
The timer-setting time will be displayed when the SET button is pressed.

❹ Time adjust button
Press the H (hour) button and M (minute) button while pressing the TIME SET button to adjust the clock to the current time.

❺ SET (timer setting) button
Press the H button and M button while pressing the SET button to set the timer.

❻ STANDBY (timer standby) button
Press this button after setting the timer.

❼ TUNING indicator
The indicator illuminates when a signal is received.

❽ MAIN POWER switch
Set this switch to ON before pressing the ON button to turn on the radio.
Set it to OFF when carrying the radio.
With this switch at OFF, the power will not turned on even if the ON button is pressed accidentally.

❾ ON button
Press this button to turn the radio on.

❿ SLEEP timer button
Press this button to set the sleep timer.

⓫ OFF button
Press this button to turn the radio off.

⓬ ENTER key
Used to input a station to one of the counter keys for preset tuning.

⓭ EXECUTE key
After inputting your desired band and frequency, press this key to complete your tuning.

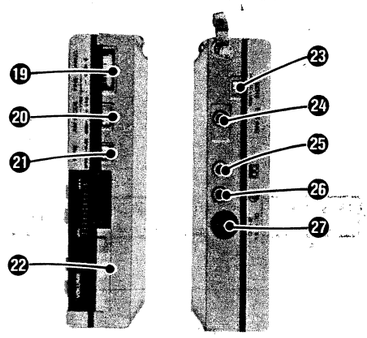
⓮ FM/AM key
Used to input a frequency for direct tuning.

⓯ Numbered keys
Used to input a frequency. If you punch in a frequency with the numbered keys, the frequency will appear in the frequency display.

⓰ BAND SELECT key
Used with ▲ (plus) key or ▼ (minus) key to continuously search a broadcast band such as FM, LW, MW and SW, or to search the meter bands of SW.

⓱ ▲ (plus)/ ▼ (minus) key
Used with the BAND SELECT key to search the desired broadcast band and tune the frequency in correctly for manual tuning.
If you press ▲ key or ▼ once, the tuned frequency will be increased or decreased by the following intervals:
FM: 0.1 MHz MW: 10 kHz
LW: 3 kHz SW: 5 kHz
If you keep the key depressed, the frequency changes continuously.
The MW interval of 10kHz is preset at the factory but you can change to the interval of 9 kHz to match the MW frequency allocation system of the country where you will use the unit.

⓲ START/STOP key
If you press this key, the radio begins searching for a station, scanning the broadcast band of the frequency inputted by direct tuning or searched for by manual tuning. Scanning stops automatically for 1.5 seconds when a station is received. Press the START/STOP key again to stop the scanning.



⓳ FINE TUNING control
Adjust this control for better reception of LW, MW or SW.

⓴ AM MODE selector
NORM: Normally set the selector to this position.
FINE: Set to this position for better reception of LW, MW and SW and adjust the tuning with the FINE TUNING control.
SSB: For SSB/CW reception, set to this position and adjust the tuning with the FINE TUNING control.

㉑ TONE control
NEWS: For listening to news.
MUSIC: For listening to music.

㉒ VOLUME control

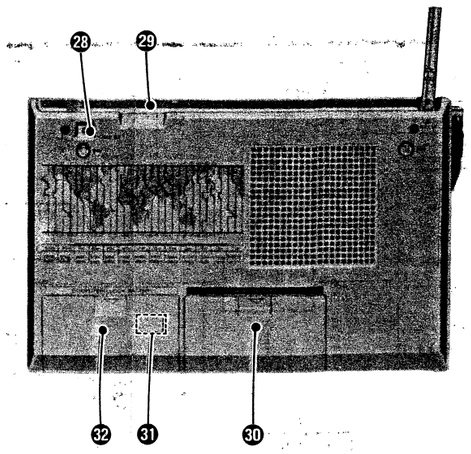
㉓ SENS (FM/AM sensitivity) selector
Normally set this selector to HIGH. Set it to LOW when the sound is distorted due to strong signals or when there is interference.

㉔ EXT ANT (external antenna) jack
Connect the supplied external antenna connector.

㉕ ⌨ Recording output jack
For recording radio programs with a tape recorder, connect the optional RK-69A connecting cord.

㉖ 🎧 Earphone jack
For private listening with an earphone. When the earphone is plugged in, the speaker is automatically disconnected.

㉗ DC IN 6 V (external power input) jack
For operation from an external power source.



㉘ TIME SET button
Used with H and M button at the front to adjust the current time.

㉙ 12/24 hour selector
You can choose either 12 hour indication or 24 hour indication by switching this selector.

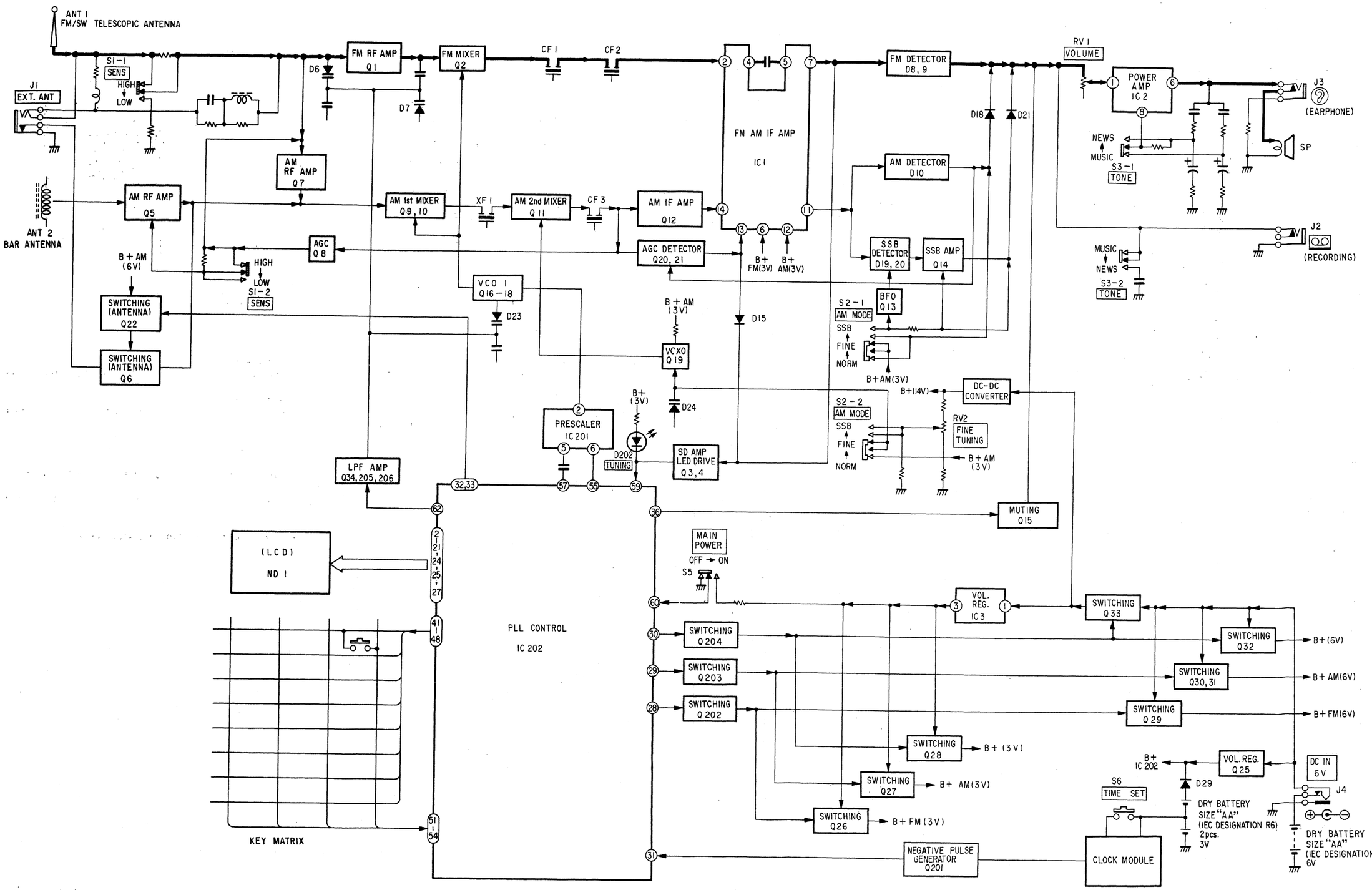
㉚ Radio battery compartment

㉛ 9 kHz/10 kHz selector (in the computer back up/clock battery compartment)
Set this selector according to the MW frequency allocation system of your country.

㉜ Computer back up/clock battery compartment

SECTION 1
OUTLINE

1-1. BLOCK DIAGRAM



●IC201's (PLL CONTROL IC μPD1706G-511) TERMINAL FUNCTIONS

Terminal No.	Terminal Name	Function
1	–	This terminal is not used on this set.
2	8a	Signal output for LCD segment.
3	7c	
4	7a	
5	6a	
6	5c	
7	5b	
8	5a	
9	3b	
10	4c	
11	4b	
12	4a	
13	3a	
14	2c	
15	2b	
16	2a	
17	1c	
18	1b	
19	1a	
20	7b	
21	9a	
22	VL	Signal output for LCD voltage check.
23	VH	
24	COM2	Signal output for LCD common.
25	COM1	
26	V_{DD}	Power supply terminal. (3V)
27	COM0	Signal output for LCD common.
28	FM	Signal output for FM power supply switching. FM mode: H otherwise: L
29	AM	Signal output for AM power supply switching. AM mode: H otherwise: L
30	POWER OUT	Signal output for power supply switching. POWER ON: H otherwise:L
31	$\overline{\text{POWER IN}}$	Power turns on when negative pulse is applied to this terminal at the STANDBY mode.
32	$\overline{\text{LW}}$	Signal ouptut for antenna switching. LW mode: L otherwise: H
33	$\overline{\text{MW}}$	Signal output for antenna switching. MW mode: L otherwise: H
34, 35	–	These terminals are not used on this set.
36	MUTE	Signal output for sound muting. mute:H otherwise:L
37-40	–	These terminals are not used on this set.
41	KS0	Signal output for key matrix scanning.
42	KS1	
43	KS2	
44	KS3	
45	KS4	
46	KS5	
47	KS6	
48	KS7	
49	XI	Clock pulse oscillating terminal.
50	XO	
51	K3	Signal input for key matrix scanning.
52	K2	
53	K1	
54	K0	
55	PSC	Signal output for prescaler control.
56	–	This terminal is not used on this set.
57	FM in	Signal input for swallow pulse.
58	V_{DD}	Power supply terminal. (3V)
59	$\overline{\text{SD}}$	Signal input for station detector. tuned: L detuned: H
60	CE	Signal input for chip enable.
61	–	This terminal is not used on this set.
62	ER	Signal output for PLL error
63	–	This terminal is not used on this set.
64	GND	Ground terminal.

● KEY MATRIX

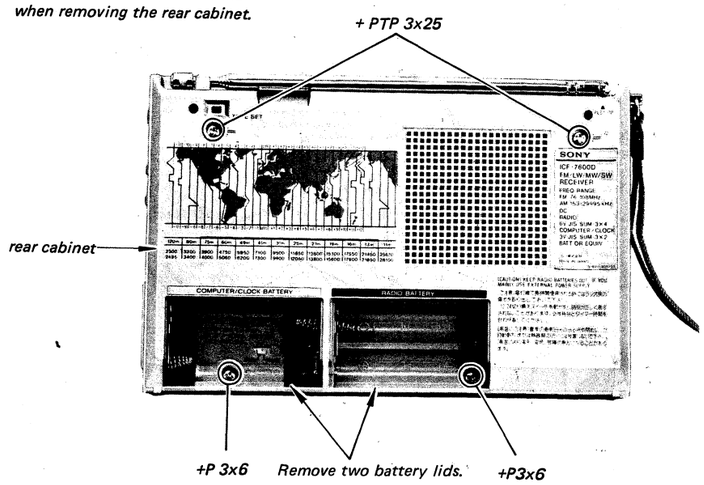
input / output	⑤① K3	⑤② K2	⑤③ K1	⑤④ K0
④① KS0	———	———	———	9 kHz 10 kHz step frequency switch
④② KS1	ENTER	BAND SELECT	———	———
④③ KS2	0 (10 key)	1 (10 key)	2 (10 key)	3 (10 key)
④④ KS3	———	FM	AM	EXECUTE
④⑤ KS4	———	⇩ (down)	+ ⇧ (up)	SCAN TUNING
④⑥ KS5	STANDBY	SLEEP	ON	OFF
④⑦ KS6	4 (10 key)	5 (10 key)	6 (10 key)	7 (10 key)
④⑧ KS7	8 (10 key)	9 (10 key)	———	———

SECTION 2
DISASSEMBLY

- Follow the disassembly procedure in the numerical order given.

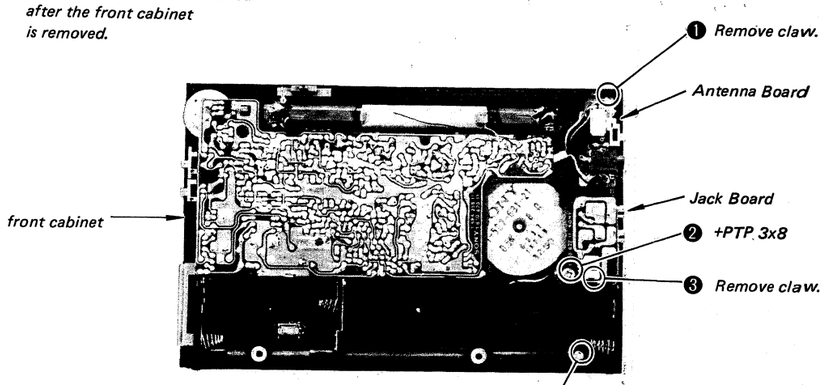
REAR CABINET

Note: Be careful not to break the lead wire of telescopic antenna when removing the rear cabinet.



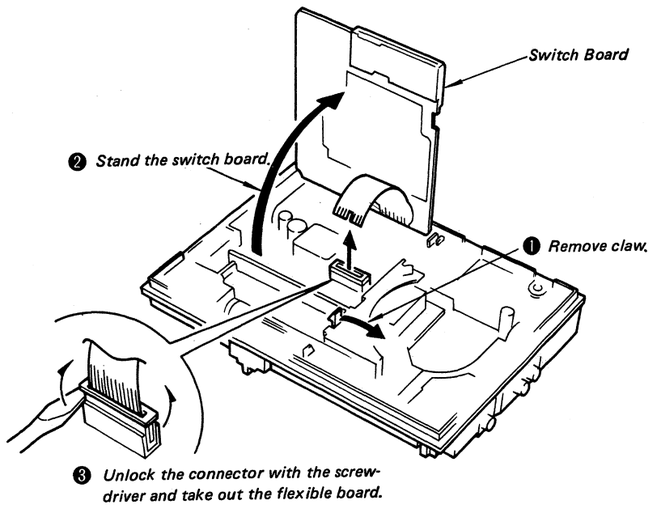
FRONT CABINET/ANTENNA BOARD/JACK BOARD

Note: Jack board should be removed after the front cabinet is removed.


❶ Remove claw.
Antenna Board
front cabinet
Jack Board
❷ +PTP 3x8
❸ Remove claw.
❶ +P 3x6
Remove the screw and take out the front cabinet.
Be careful not to break the lead wire of the speaker.

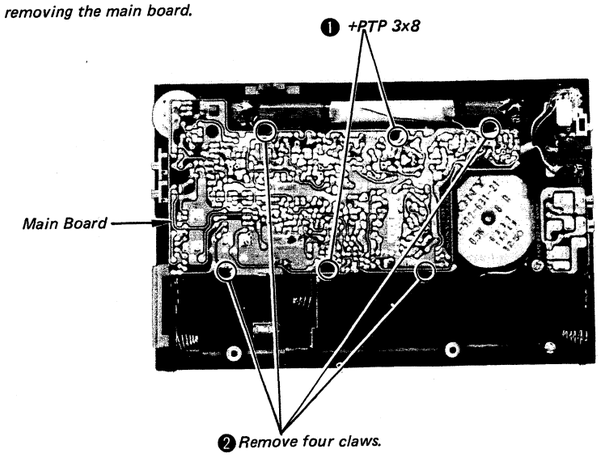
SECTION 3
ADJUSTMENTS

SWITCH BOARD


Switch Board
❷ Stand the switch board.
❶ Remove claw.
❸ Unlock the connector with the screw-driver and take out the flexible board.

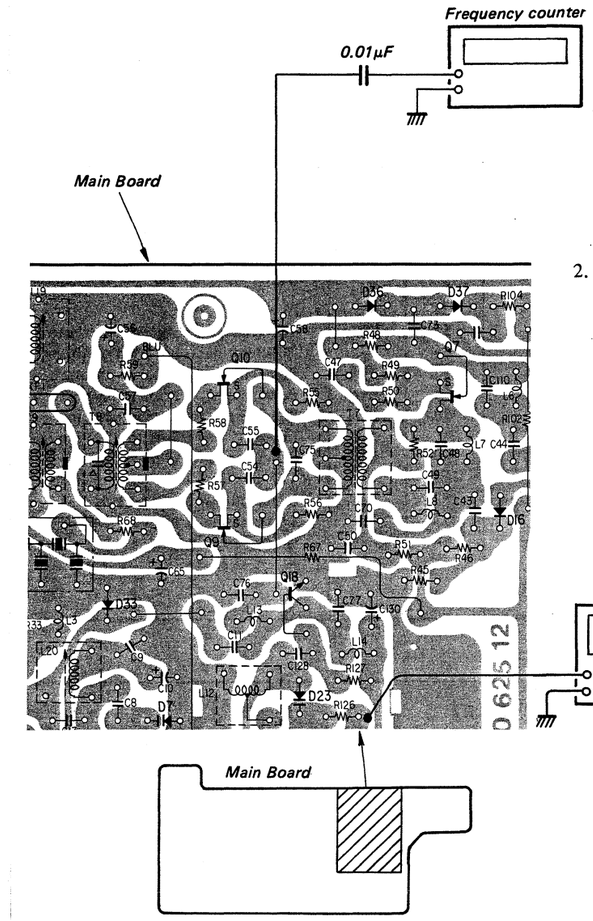
MAIN BOARD

Note: Be careful not to break the lead wire when removing the main board.



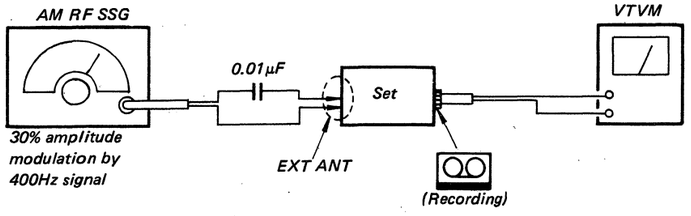
PLL FREQUENCY/LPF OUTPUT LEVEL CHECK

1. Confirm the frequency counter reading is 100MHz when tuned to FM 89.3 MHz.

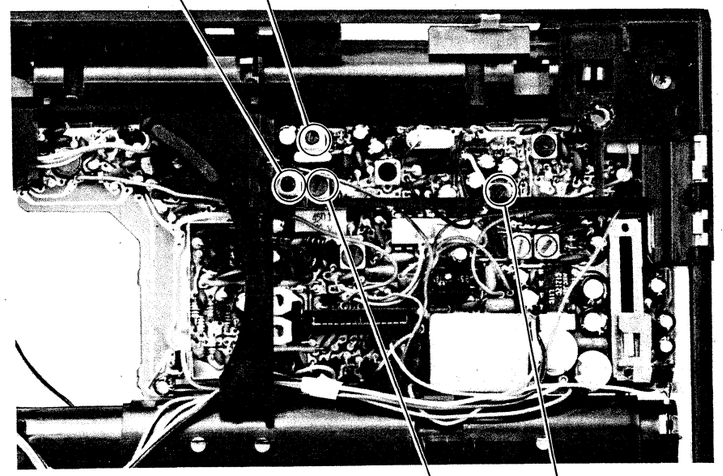


2. Confirm the 9-11V reading on VOM when tuned to FM 108 MHz.

AM IF ALIGNMENT



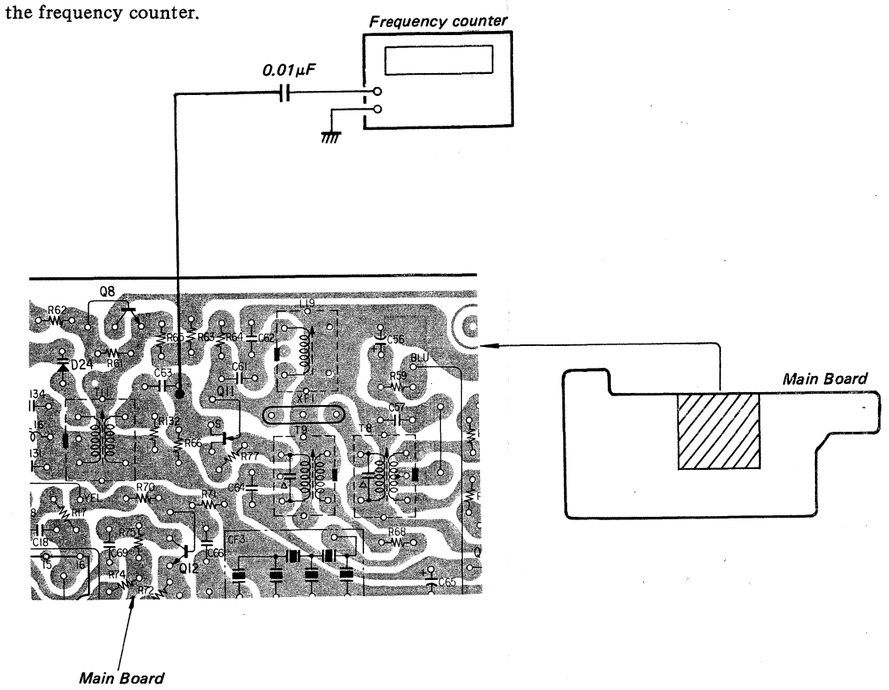
AM 1st IF ALIGNMENT	
Adjust for a maximum reading on VTVM.	
T8	L19

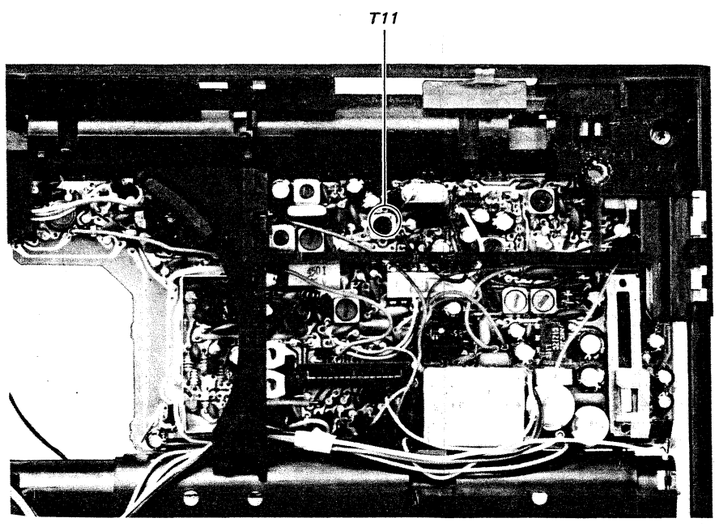


T9	T6
Adjust for a maximum reading on VTVM.	
AM 2nd IF ALIGNMENT	

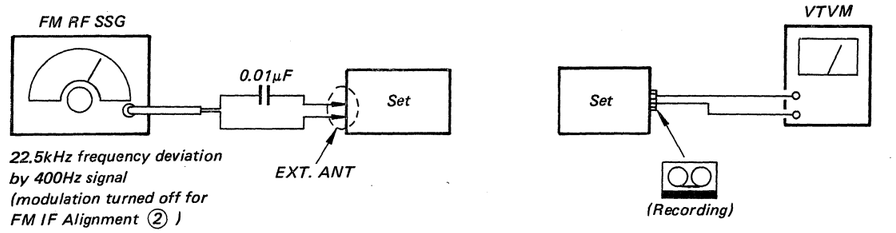
AM 2nd IF VCXO ADJUSTMENT

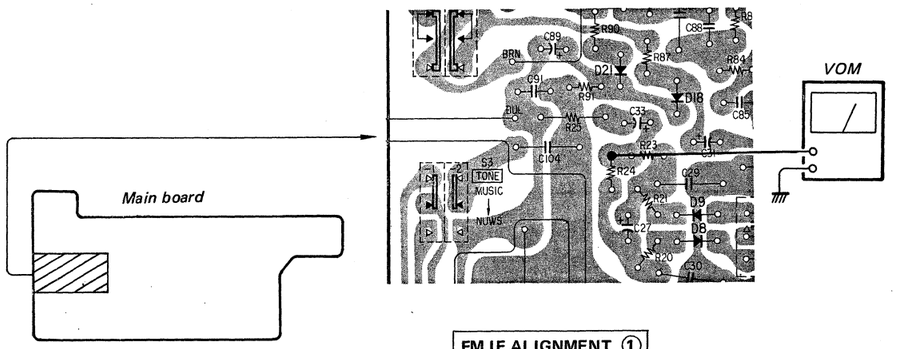
Adjust T11 for 55,395MHz reading on the frequency counter.





FM IF ALIGNMENT

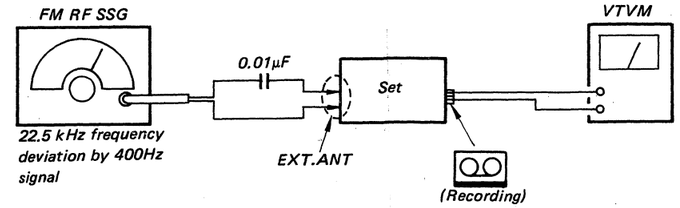




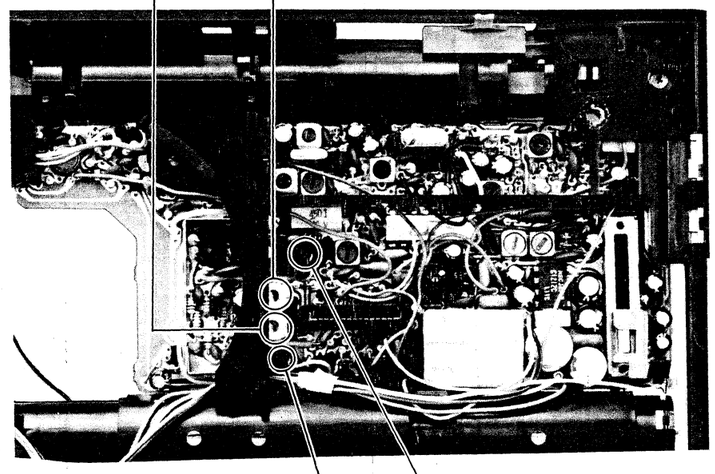
FM IF ALIGNMENT ①
Adjust for a maximum reading on VTVM.
T3 / T4

T5
Adjust for a 0V DC. reading on VOM.
FM IF ALIGNMENT ②

FM TRACKING ADJUSTMENT



FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
102 MHz	
CT1	CT2



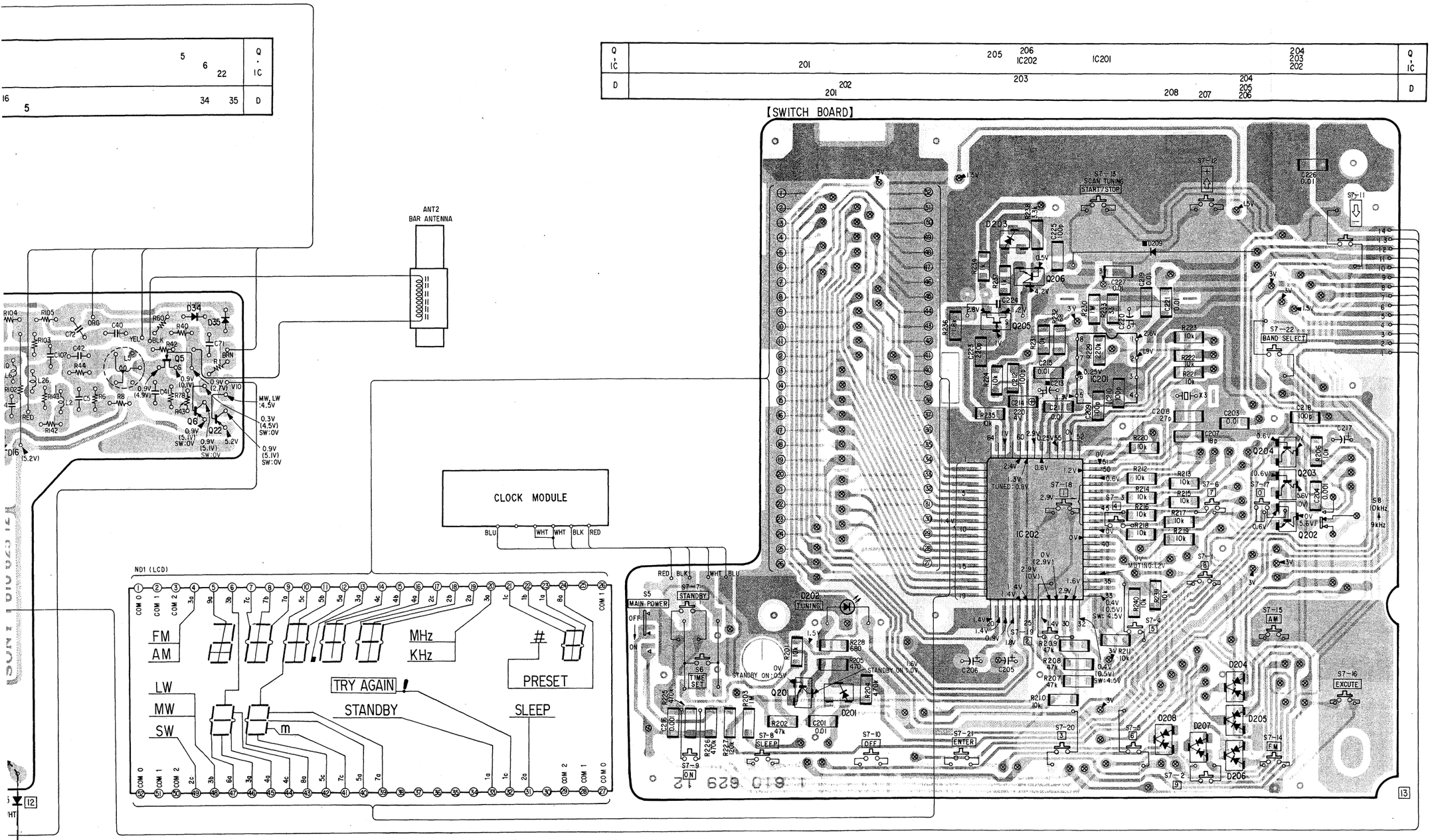
T1	L20
81 MHz	
Adjust for a maximum reading on VTVM.	
FM TRACKING ADJUSTMENT	

4-1. MOUNTING DIAGRAM

— Conductor Side —

See page 26 for semiconductor lead layouts.

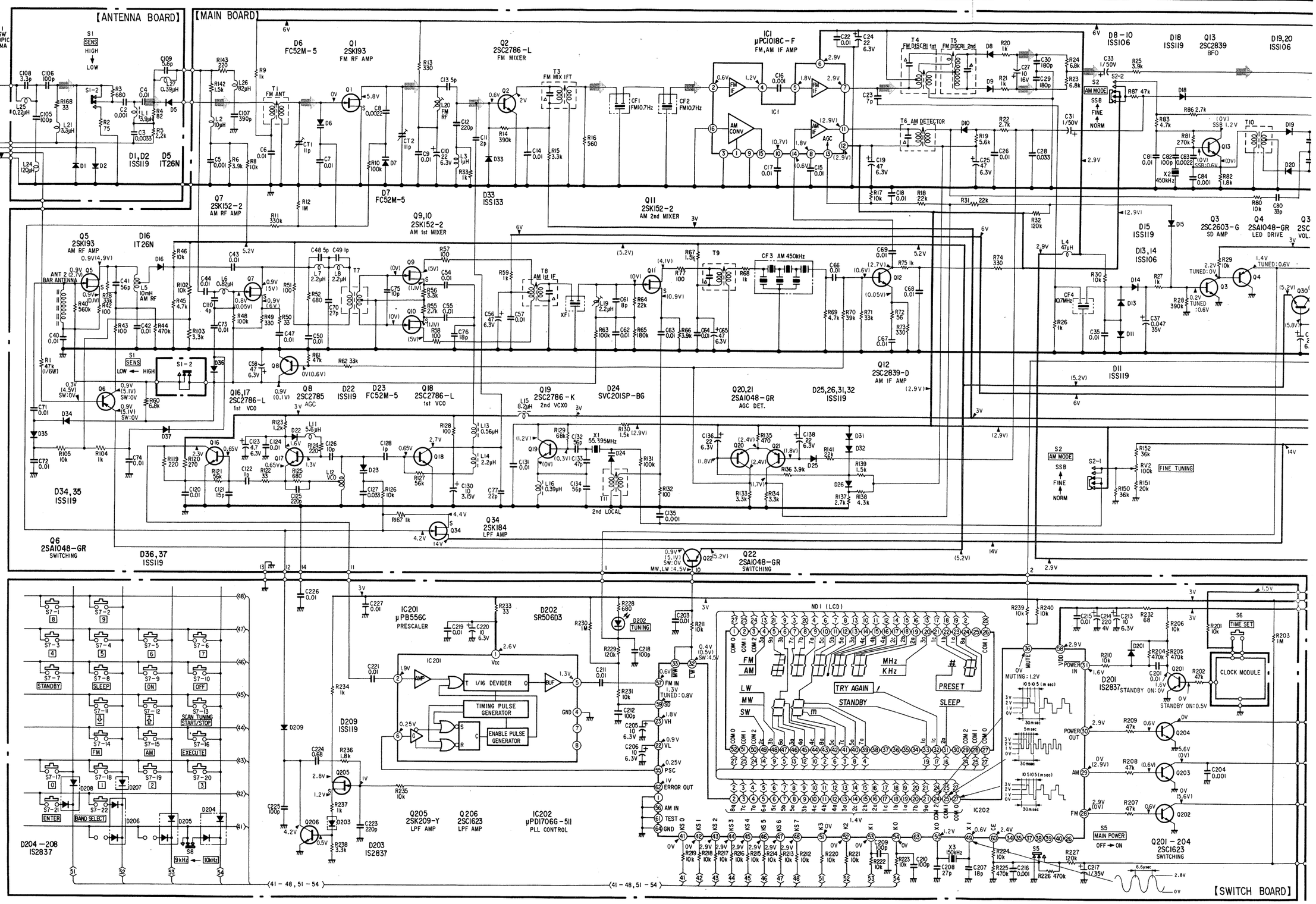
O P Q R S T U V W X Y Z A1 B1 C1 D1

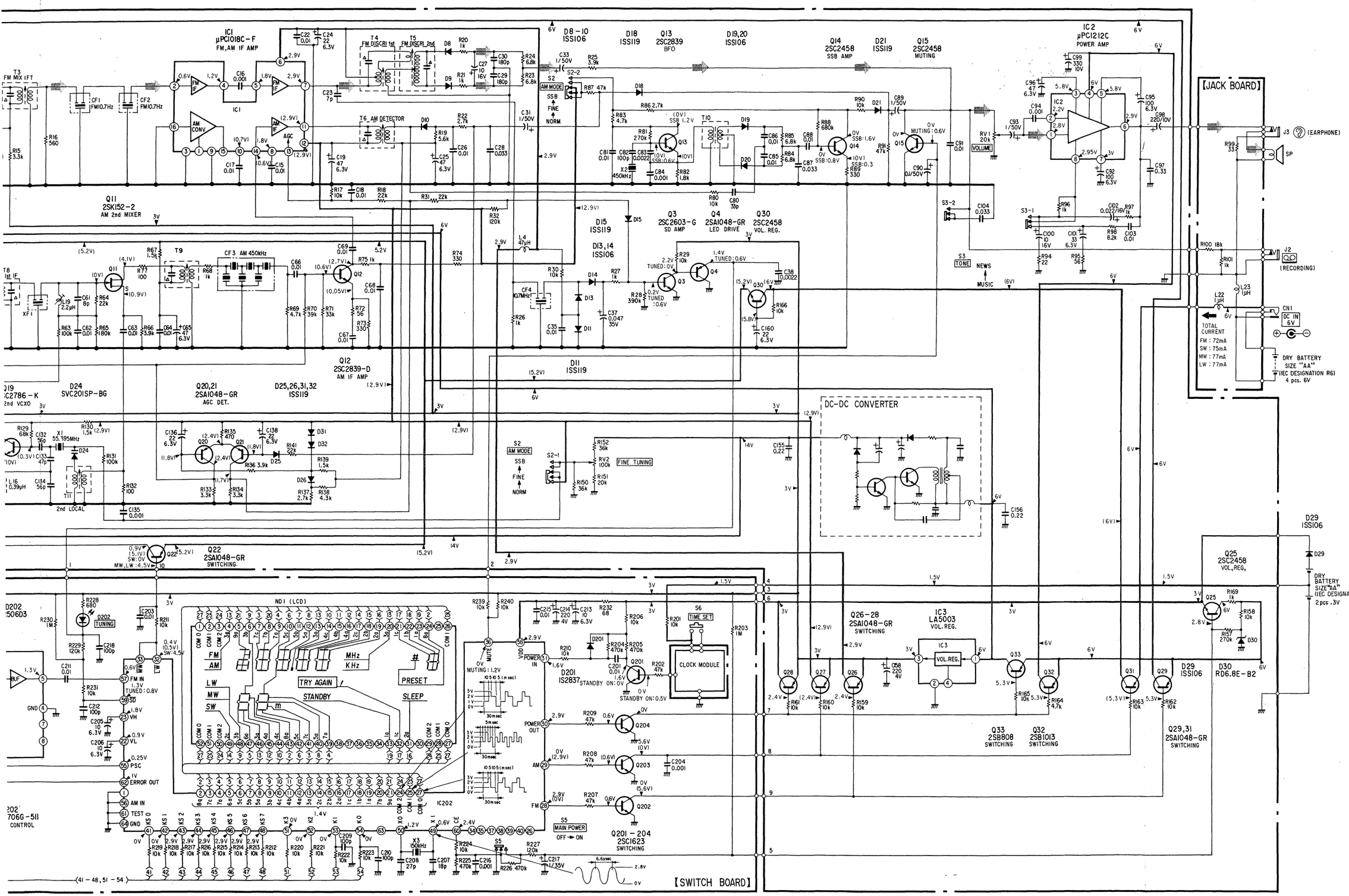


Note:
- ● ○— : parts extracted from the component side.
- ● ●— : parts extracted from the conductor side.
- ● ■ : part mounted on the conductor side.
- ● [:]— : indicates side identified with part number.
- ● ⊗ : Through hole.
- ● ▪▪▪▪ : component-side pattern.
- ● ▒▒▒ : B + pattern
- ● ▬▬▶▬▬ : signal path

4-2. SCHEMATIC DIAGRAM

See page 26 for Notes.




IC1 μPC1018C-F FM,AM IF AMP
IC2 μPC1212C POWER AMP
T3 FM MIX IFT
T4 FM DISCRI 1st
T5 FM DISCRI 2nd
T6 AM DETECTOR
T8 1st IF
T9
T10
T11 2nd LOCAL
CF1 FM10.7Hz
CF2 FM10.7Hz
CF3 AM 450kHz
CF4 10.7MHz
X1 55.395MHz
X2 450kHz
X3 150kHz
Q11 2SK152-2 AM 2nd MIXER
Q12 2SC2839-D AM IF AMP
Q13 2SC2839 BFO
Q14 2SC2458 SSB AMP
Q15 2SC2458 MUTING
Q3 2SC2603-G SD AMP
Q4 2SA1048-GR LED DRIVE
Q30 2SC2458 VOL. REG.
Q20,21 2SA1048-GR AGC DET.
Q22 2SA1048-GR SWITCHING
Q26-28 2SA1048-GR SWITCHING
Q29,31 2SA1048-GR SWITCHING
Q32 2SB1013 SWITCHING
Q33 2SB808 SWITCHING
Q201-204 2SC1623 SWITCHING
Q25 2SC2458 VOL.REG.
D8-10 ISS106
D18 ISS119
D19,20 ISS106
D21 ISS119
D15 ISS119
D13,14 ISS106
D11 ISS119
D24 SVC201SP-BG
D25,26,31,32 ISS119
D29 ISS106
D30 RD6.8E-B2
D201 IS2837
IC3 LA5003 VOL. REG.
IC202 μPD706G-511 CONTROL
ND1 (LCD)
DC-DC CONVERTER
【JACK BOARD】
【SWITCH BOARD】
J3 (EARPHONE)
SP
J2 (RECORDING)
CN1 DC IN 6V
DRY BATTERY SIZE "AA" (IEC DESIGNATION R6) 4 pcs. 6V
DRY BATTERY SIZE "AA" (IEC DESIGNATION R6) 2 pcs. 3V
TOTAL CURRENT FM : 72mA SW : 75mA MW : 77mA LW : 77mA
S2 AM MODE SSB FINE NORM
S3 TONE NEWS MUSIC
S5 MAIN POWER OFF → ON
S6 TIME SET
RV1 20k VOLUME
RV2 100k FINE TUNING
D202 TUNING
FM AM LW MW SW MHz KHz TRY AGAIN STANDBY SLEEP PRESET
CLOCK MODULE
MUTING
VOL. REG.
2nd VCXO
2nd LOCAL
SWITCHING
CONTROL

Note:

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/6W unless otherwise noted. kΩ : 1000 Ω, MΩ : 1000 kΩ
- △ : internal component.
- Switch

Ref. No.	Switch	Position
S1	SENS	HIGH
S2	AM MODE	NORM
S3	TONE	MUSIC
S5	MAIN POWER	OFF
S6	TIME SET	OFF
S7– 1	8 (10 key)	OFF
S7– 2	9 (10 key)	OFF
S7– 3	4 (10 key)	OFF
S7– 4	5 (10 key)	OFF
S7– 5	6 (10 key)	OFF
S7– 6	7 (10 key)	OFF
S7– 7	STANDBY	OFF
S7– 8	SLEEP	OFF
S7– 9	ON	OFF

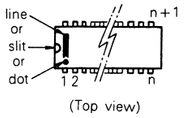
- ▭ : panel designation.
- ——: B+ bus.
- Readings are taken under no-signal (detuned) conditions with a VOM (50 kΩ/V).
  no mark : FM
  ( ) : AM

Ref. No.	Switch	Position
S7–10	OFF	OFF
S7–11	UP	OFF
S7–12	DOWN	OFF
S7–13	START/STOP	OFF
S7–14	FM	OFF
S7–15	AM	OFF
S7–16	EXECUTE	OFF
S7–17	0 (10 key)	OFF
S7–18	1 (10 key)	OFF
S7–19	2 (10 key)	OFF
S7–20	3 (10 key)	OFF
S7–21	ENTER	OFF
S7–22	BAND SELECT	OFF
S8	9kHz–10kHz	10kHz

- ➡ : signal path

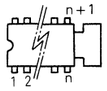
Semiconductor Lead Layouts

μPB556C
μPC1018C-F



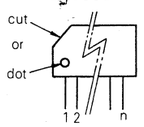
(Top view)

μPC1212C

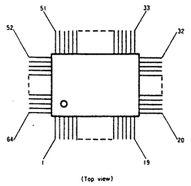


(Top view)

LA5003

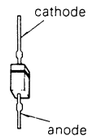


μPD1706G-511

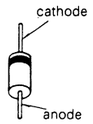


(Top view)

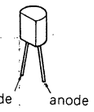
1T26N



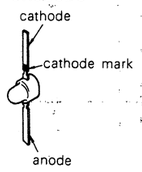
1SS106
1SS119
1SS133
RD6.8EB2



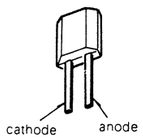
FC52M-5



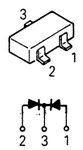
SR506D3



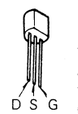
SVC201SP-BG



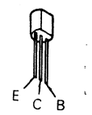
1S2837



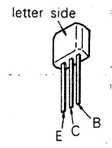
2SK152-2



2SB1013

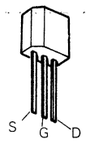


2SC2603-F
2SC2785
2SC2786-K
2SC2786-L

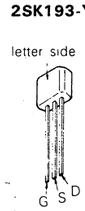


2SA1048-GR
2SB808
2SC2458
2SC2839-D

2SK184



2SK193-Y



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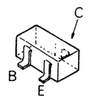
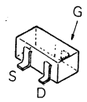


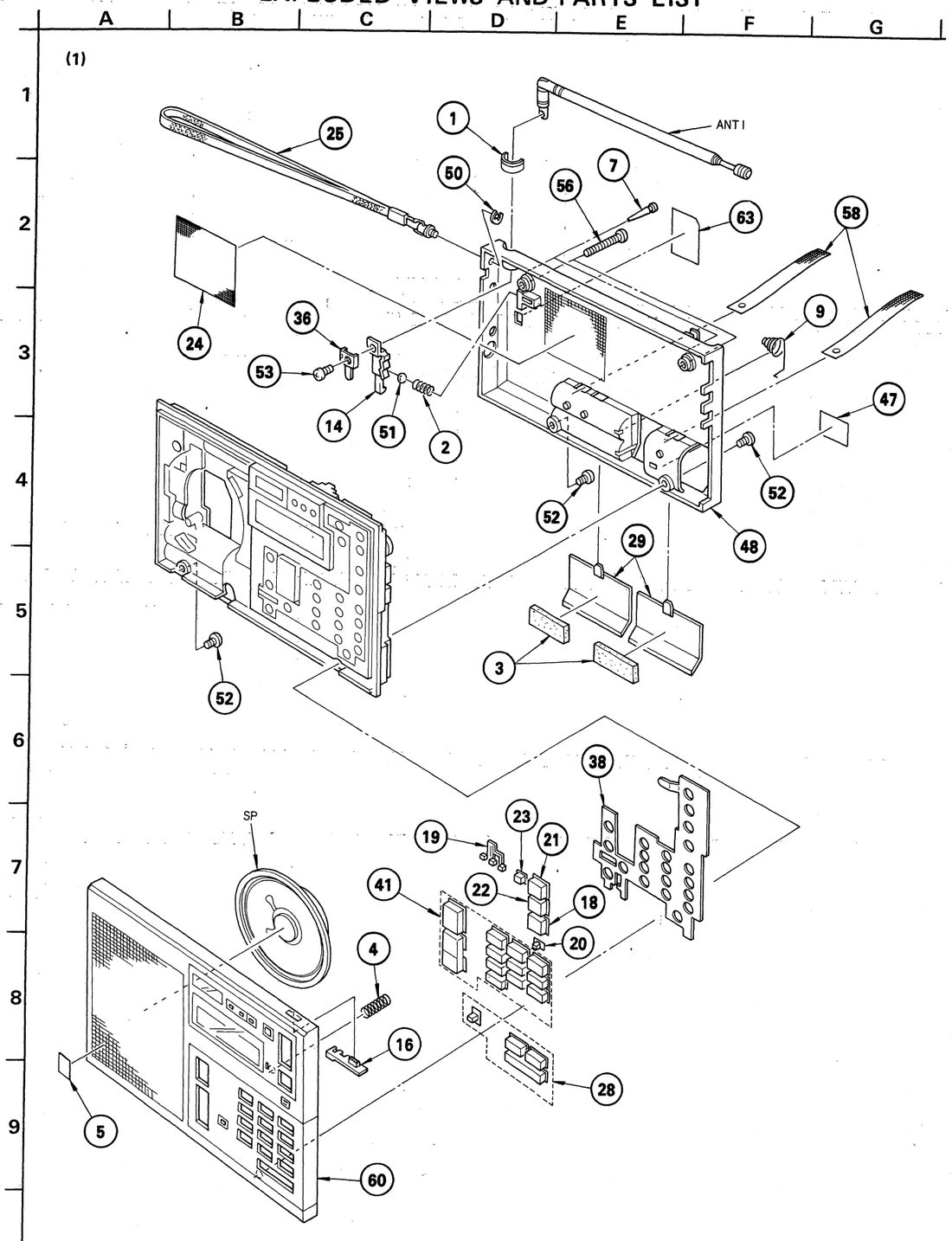
2SK209-Y



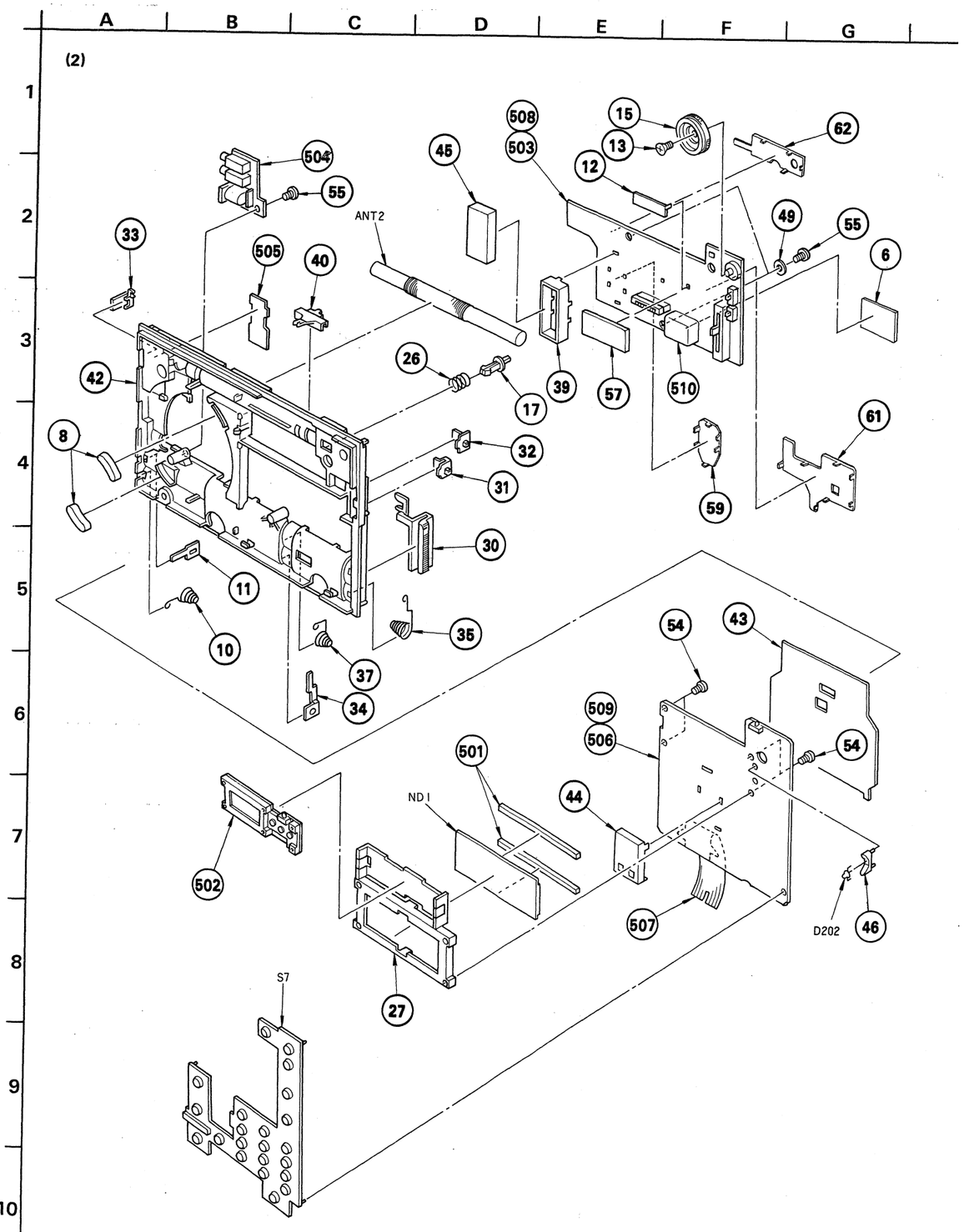
SECTION 5
EXPLODED VIEWS AND PARTS LIST

SECTION 5
EXPLODED VIEWS AND PARTS LIST

(1)



(2)



GENERAL SECTION

No.	Part No.	Description
1	3-891-847-01	GUARD, ANTENNA
2	3-140-063-00	SPRING, COMPRESSION
3	3-485-341-11	CUSHION
4	3-554-017-00	SPRING, COMPRESSION
5	3-703-709-00	STICKER, SONY SYMBOL (15)
6	3-831-441-XX	CUSHION
7	3-880-917-00	STOPPER
8	3-881-931-00	CUSHION, SPEAKER
9	3-883-423-00	SPRING
10	3-883-424-00	SPRING
11	3-883-428-00	PLATE, TERMINAL (POSITIVE)
12 ♦	3-884-935-00	PLATE (A), SHIELD
13	3-888-156-00	SCREW
14	3-891-802-00	SLIDER (ANTENNA, TELESCOPIC)
15	3-891-803-00	KNOB (FINE)
16	3-891-804-00	KNOB (LOCK)
17	3-891-805-00	BUTTON (TIME SET)
18	3-891-806-00	BUTTON (C)
19	3-891-807-00	BUTTON (D)
20	3-891-808-00	BUTTON (E)
21	3-891-809-01	BUTTON (F)
22	3-891-809-11	BUTTON (F)
23	3-891-810-00	BUTTON (G)
24	3-891-812-00	NET, DUST PROTECTION
25	3-891-813-00	STRAP, HAND
26	3-891-814-00	SPRING, COMPRESSION
27	3-891-815-00	HOLDER
28	3-891-816-00	BUTTON (B)
29	3-891-817-00	LID, BATTERY CASE
30	3-891-818-00	KNOB (VOL)
31	3-891-819-00	KNOB (TONE)
32	3-891-820-00	KNOB (MODE)
33	3-891-821-00	KNOB (SENS)
34	3-891-822-00	TERMINAL, BATTERY
35	3-891-823-00	SPRING (PLUS MINUS)
36	3-891-829-00	TERMINAL BOARD, ANTENNA
37	3-891-830-00	SPRING
38	3-891-834-00	RETAINER, KNOB
39 ♦	3-891-835-00	CASE (C), SHIELD
40	3-891-837-00	KNOB (SELECT)
41	3-891-839-00	BUTTON (A)
42	3-891-843-00	CHASSIS
43 ♦	3-891-853-00	PLATE (D), SHIELD
44 ♦	3-891-854-00	CASE (E), SHIELD
45 ♦	3-891-863-00	CASE, SHIELD (H)

GENERAL SECTION

No.	Part No.	Description
46	3-891-872-00	HOLDER, LED
47	3-891-873-00	LABEL (C)
48	3-891-874-00	LID, REAR, CABINET
49	7-623-954-41	WASHER 3, FIBER
50	7-624-104-04	STOP RING 2.0, TYPE -E
51	7-671-115-01	BALL, STEEL
52	7-682-147-13	SCREW +P 3X6
53	7-682-159-01	SCREW +P 4X5
54	7-685-103-11	SCREW +P 2X5 TYPE2 NON-SLIT
55	7-685-146-11	SCREW +P 3X8 TYPE2 NON-SLIT
56	7-685-152-14	SCREW +P 3X25 TYPE2 NON-SLIT
57	9-911-815-01	CUSHION
58	9-911-816-02	CLOTH, BATTERY DRAWER
59 ♦	X-3891-806-0	PLATE (G) ASSY, SHIELD
60	X-3891-809-1	FRONT PANEL ASSY
61	X-3891-817-0	PLATE (J) ASSY, SHIELD
62	X-3891-818-0	PLATE (K) ASSY, SHIELD
63	3-891-871-00	LABEL, MODEL NUMBER (U)

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
101	1-504-059-11	MAGNETIC EARPHONE(ME-20H)
102	1-506-443-00	ADAPTOR, PLUG
103	1-528-137-00	PACK, BATTERY (EBP-6)
104	3-701-616-00	BAG, POLYETHYLENE
105	3-701-617-00	BAG, POLYETHYLENE
106	3-887-278-00	BOOK, RADIO WAVE GUIDE
107	3-890-830-00	BAG, POLYETHYLENE
108	3-891-848-00	CASE, CARRYING
109	3-891-860-00	CASE, ACCESSORY
110	3-891-861-00	INDIVIDUAL CARTON
111	3-891-862-00	CUSHION
112	3-995-966-31	(Canadian).....MANUAL, INSTRUCTION
113	3-995-966-21	(US,Canadian)...MANUAL, INSTRUCTION
114	X-3891-802-0	ANTENNA ASSY, WIRE, AM

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
501	1-535-468-00	CONDUCTOR, CONNECTOR			
502	1-548-136-00	CLOCK MODULE			
503 ♦	1-610-625-00	PC BOARD, MAIN			
504 ♦	1-610-627-00	PC BOARD, JACK			
505 ♦	1-610-628-00	PC BOARD, ANTENNA			
506 ♦	1-610-629-00	PC BOARD, SWITCH			
507	1-610-740-00	PC BOARD, JOINT			
508 ♦	A-3660-443-A	MOUNTED PCB, MAIN			
509 ♦	A-3681-177-A	MOUNTED PCB, SWITCH			
510	A-3689-039-A	DC-DC CONVERTER			
ANT1	1-501-255-00	ANTENNA, TELESCOPIC			
ANT2	1-402-022-12	ANTENNA, FERRITE-ROD (LW/MW)			
C2	1-161-026-00	CERAMIC	0.001MF	20%	25V
C3	1-161-029-00	CERAMIC	0.0033MF	20%	25V
C4	1-161-032-00	CERAMIC	0.01MF	20%	25V
C5	1-161-039-00	CERAMIC	0.001MF	20%	50V
C6	1-161-032-00	CERAMIC	0.01MF	20%	25V
C7	1-161-032-00	CERAMIC	0.01MF	20%	25V
C8	1-161-043-00	CERAMIC	0.0022MF	20%	50V
C9	1-161-032-00	CERAMIC	0.01MF	20%	25V
C10	1-123-618-00	ELECT	22MF	20%	6.3V
C11	1-102-935-00	CERAMIC	2PF	0.25PF	50V
C12	1-102-110-00	CERAMIC	220PF	10%	50V
C13	1-102-942-00	CERAMIC	5PF	0.5PF	50V
C14	1-161-032-00	CERAMIC	0.01MF	20%	25V
C15	1-161-032-00	CERAMIC	0.01MF	20%	25V
C16	1-101-001-00	CERAMIC	0.001MF		50V
C17	1-161-032-00	CERAMIC	0.01MF	20%	25V
C18	1-161-032-00	CERAMIC	0.01MF	20%	25V
C19	1-123-647-00	ELECT	47MF	20%	6.3V
C22	1-161-032-00	CERAMIC	0.01MF	20%	25V
C23	1-102-944-00	CERAMIC	7PF	0.5PF	50V
C24	1-123-618-00	ELECT	22MF	20%	6.3V
C25	1-123-647-00	ELECT	47MF	20%	6.3V
C26	1-161-032-00	CERAMIC	0.01MF	20%	25V
C27	1-123-617-00	ELECT	10MF	20%	16V
C28	1-161-035-00	CERAMIC	0.033MF	20%	25V
C29	1-102-976-00	CERAMIC	180PF	10%	50V
C30	1-102-976-00	CERAMIC	180PF	10%	50V
C31	1-123-611-00	ELECT	1MF	20%	50V
C33	1-123-611-00	ELECT	1MF	20%	50V
C35	1-161-032-00	CERAMIC	0.01MF	20%	25V
C37	1-131-400-00	TANTALUM	0.047MF	20%	35V
C38	1-161-043-00	CERAMIC	0.0022MF	20%	50V
C40	1-161-032-00	CERAMIC	0.01MF	20%	25V

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ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
101	1-504-059-11	MAGNETIC EARPHONE(ME-20H)
102	1-506-443-00	ADAPTOR, PLUG
103	1-528-137-00	PACK, BATTERY (EBP-6)
104	3-701-616-00	BAG, POLYETHYLENE
105	3-701-617-00	BAG, POLYETHYLENE
106	3-887-278-00	BOOK, RADIO WAVE GUIDE
107	3-890-830-00	BAG, POLYETHYLENE
108	3-891-848-00	CASE, CARRYING
109	3-891-860-00	CASE, ACCESSORY
110	3-891-861-00	INDIVIDUAL CARTON
111	3-891-862-00	CUSHION
112	3-995-966-31	(Canadian).....MANUAL, INSTRUCTION
113	3-995-966-21	(US,Canadian)...MANUAL, INSTRUCTION
114	X-3891-802-0	ANTENNA ASSY, WIRE, AM

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
501	1-535-468-00	CONDUCTOR, CONNECTOR			
502	1-548-136-00	CLOCK MODULE			
503	♦1-610-625-00	PC BOARD, MAIN			
504	♦1-610-627-00	PC BOARD, JACK			
505	♦1-610-628-00	PC BOARD, ANTENNA			
506	♦1-610-629-00	PC BOARD, SWITCH			
507	1-610-740-00	PC BOARD, JOINT			
508	♦A-3660-443-A	MOUNTED PCB, MAIN			
509	♦A-3681-177-A	MOUNTED PCB, SWITCH			
510	A-3689-039-A	DC-DC CONVERTER			
ANT1	1-501-255-00	ANTENNA, TELESCOPIC			
ANT2	1-402-022-12	ANTENNA, FERRITE-ROD (LW/MW)			
C2	1-161-026-00	CERAMIC	0.001MF	20%	25V
C3	1-161-029-00	CERAMIC	0.0033MF	20%	25V
C4	1-161-032-00	CERAMIC	0.01MF	20%	25V
C5	1-161-039-00	CERAMIC	0.001MF	20%	50V
C6	1-161-032-00	CERAMIC	0.01MF	20%	25V
C7	1-161-032-00	CERAMIC	0.01MF	20%	25V
C8	1-161-043-00	CERAMIC	0.0022MF	20%	50V
C9	1-161-032-00	CERAMIC	0.01MF	20%	25V
C10	1-123-618-00	ELECT	22MF	20%	6.3V
C11	1-102-935-00	CERAMIC	2PF	0.25PF	50V
C12	1-102-110-00	CERAMIC	220PF	10%	50V
C13	1-102-942-00	CERAMIC	5PF	0.5PF	50V
C14	1-161-032-00	CERAMIC	0.01MF	20%	25V
C15	1-161-032-00	CERAMIC	0.01MF	20%	25V
C16	1-101-001-00	CERAMIC	0.001MF		50V
C17	1-161-032-00	CERAMIC	0.01MF	20%	25V
C18	1-161-032-00	CERAMIC	0.01MF	20%	25V
C19	1-123-647-00	ELECT	47MF	20%	6.3V
C22	1-161-032-00	CERAMIC	0.01MF	20%	25V
C23	1-102-944-00	CERAMIC	7PF	0.5PF	50V
C24	1-123-618-00	ELECT	22MF	20%	6.3V
C25	1-123-647-00	ELECT	47MF	20%	6.3V
C26	1-161-032-00	CERAMIC	0.01MF	20%	25V
C27	1-123-617-00	ELECT	10MF	20%	16V
C28	1-161-035-00	CERAMIC	0.033MF	20%	25V
C29	1-102-976-00	CERAMIC	180PF	10%	50V
C30	1-102-976-00	CERAMIC	180PF	10%	50V
C31	1-123-611-00	ELECT	1MF	20%	50V
C33	1-123-611-00	ELECT	1MF	20%	50V
C35	1-161-032-00	CERAMIC	0.01MF	20%	25V
C37	1-131-400-00	TANTALUM	0.047MF	20%	35V
C38	1-161-043-00	CERAMIC	0.0022MF	20%	50V
C40	1-161-032-00	CERAMIC	0.01MF	20%	25V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C41	1-101-884-00	CERAMIC	56PF	10%	50V
C42	1-161-032-00	CERAMIC	0.01MF	20%	25V
C43	1-161-032-00	CERAMIC	0.01MF	20%	25V
C44	1-161-032-00	CERAMIC	0.01MF	20%	25V
C47	1-161-032-00	CERAMIC	0.01MF	20%	25V
C48	1-102-942-00	CERAMIC	5PF	0.5PF	50V
C49	1-102-934-00	CERAMIC	1PF	0.25PF	50V
C50	1-161-032-00	CERAMIC	0.01MF	20%	25V
C54	1-161-032-00	CERAMIC	0.01MF	20%	25V
C55	1-161-032-00	CERAMIC	0.01MF	20%	25V
C56	1-123-647-00	ELECT	47MF	20%	6.3V
C57	1-161-032-00	CERAMIC	0.01MF	20%	25V
C58	1-123-647-00	ELECT	47MF	20%	6.3V
C61	1-102-945-00	CERAMIC	8PF	0.5PF	50V
C62	1-161-032-00	CERAMIC	0.01MF	20%	25V
C63	1-161-032-00	CERAMIC	0.01MF	20%	25V
C64	1-161-032-00	CERAMIC	0.01MF	20%	25V
C65	1-123-647-00	ELECT	47MF	20%	6.3V
C66	1-161-032-00	CERAMIC	0.01MF	20%	25V
C67	1-161-032-00	CERAMIC	0.01MF	20%	25V
C68	1-161-032-00	CERAMIC	0.01MF	20%	25V
C69	1-161-032-00	CERAMIC	0.01MF	20%	25V
C70	1-102-961-00	CERAMIC	27PF	5%	50V
C71	1-161-051-00	CERAMIC	0.01MF	10%	50V
C72	1-161-051-00	CERAMIC	0.01MF	10%	50V
C73	1-161-051-00	CERAMIC	0.01MF	10%	50V
C74	1-161-051-00	CERAMIC	0.01MF	10%	50V
C75	1-102-947-00	CERAMIC	10PF	5%	50V
C76	1-102-953-00	CERAMIC	18PF	5%	50V
C77	1-102-959-00	CERAMIC	22PF	5%	50V
C80	1-102-963-00	CERAMIC	33PF	5%	50V
C81	1-161-032-00	CERAMIC	0.01MF	20%	25V
C82	1-102-973-00	CERAMIC	100PF	5%	50V
C83	1-161-028-00	CERAMIC	0.0022MF	20%	25V
C84	1-161-026-00	CERAMIC	0.001MF	20%	25V
C85	1-161-032-00	CERAMIC	0.01MF	20%	25V
C86	1-161-032-00	CERAMIC	0.01MF	20%	25V
C87	1-161-035-00	CERAMIC	0.033MF	20%	25V
C88	1-161-032-00	CERAMIC	0.01MF	20%	25V
C89	1-123-611-00	ELECT	1MF	20%	50V
C90	1-123-607-00	ELECT	0.1MF	20%	50V
C91	1-161-032-00	CERAMIC	0.01MF	20%	25V
C92	1-123-661-00	ELECT	100MF	20%	6.3V
C93	1-123-611-00	ELECT	1MF	20%	50V
C94	1-101-001-00	CERAMIC	0.001MF		50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C95	1-123-661-00	ELECT	100MF	20%	6.3V
C96	1-123-647-00	ELECT	47MF	20%	6.3V
C97	1-130-774-00	FILM	0.33MF	10%	63V
C98	1-123-308-00	ELECT	220MF	20%	10V
C99	1-123-309-00	ELECT	330MF	20%	10V
C100	1-123-617-00	ELECT	10MF	20%	16V
C101	1-123-646-00	ELECT	33MF	20%	6.3V
C102	1-131-398-00	TANTALUM	0.022MF	20%	35V
C103	1-161-032-00	CERAMIC	0.01MF	20%	25V
C104	1-161-035-00	CERAMIC	0.033MF	20%	25V
C105	1-102-106-00	CERAMIC	100PF	10%	50V
C106	1-102-106-00	CERAMIC	100PF	10%	50V
C107	1-102-113-00	CERAMIC	390PF	10%	50V
C108	1-162-007-00	CERAMIC	3.3PF	10%	50V
C109	1-162-010-00	CERAMIC	5.6PF	10%	50V
C110	1-102-937-00	CERAMIC	4PF	0.25PF	50V
C120	1-161-032-00	CERAMIC	0.01MF	20%	25V
C121	1-102-951-00	CERAMIC	15PF	5%	50V
C122	1-102-934-00	CERAMIC	1PF	0.25PF	50V
C123	1-123-647-00	ELECT	47MF	20%	6.3V
C124	1-161-032-00	CERAMIC	0.01MF	20%	25V
C125	1-102-110-00	CERAMIC	220PF	10%	50V
C126	1-102-947-00	CERAMIC	10PF	5%	50V
C127	1-161-035-00	CERAMIC	0.033MF	20%	25V
C128	1-102-934-00	CERAMIC	1PF	0.25PF	50V
C130	1-131-389-00	TANTALUM	10MF	20%	3.15V
C131	1-161-032-00	CERAMIC	0.01MF	20%	25V
C132	1-101-884-00	CERAMIC	56PF	10%	50V
C133	1-101-880-00	CERAMIC	47PF	10%	50V
C134	1-101-884-00	CERAMIC	56PF	10%	50V
C135	1-161-026-00	CERAMIC	0.001MF	20%	25V
C136	1-123-618-00	ELECT	22MF	20%	6.3V
C138	1-123-618-00	ELECT	22MF	20%	6.3V
C155	1-130-772-00	FILM	0.22MF	10%	63V
C156	1-130-772-00	FILM	0.22MF	10%	63V
C158	1-123-827-00	ELECT	220MF	20%	4V
C159	1-101-001-00	CERAMIC	0.001MF		50V
C160	1-123-618-00	ELECT	22MF	20%	6.3V
C201	1-163-059-00	CERAMIC CHIP	0.01MF	10%	50V
C203	1-163-059-00	CERAMIC CHIP	0.01MF	10%	50V

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C204	1-163-047-00	CERAMIC CHIP	0.001MF	10%	50V
C205	1-124-435-00	ELECT	10MF	20%	6.3V
C206	1-124-435-00	ELECT	10MF	20%	6.3V
C207	1-163-163-00	CERAMIC CHIP	18PF	5%	50V
C208	1-163-167-00	CERAMIC CHIP	27PF	5%	50V
C209	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C210	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C211	1-163-059-00	CERAMIC CHIP	0.01MF	10%	50V
C212	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C213	1-131-383-00	TANTALUM	10MF	20%	6.3V
C214	1-123-827-00	ELECT	220MF	20%	4V
C215	1-163-059-00	CERAMIC CHIP	0.01MF	10%	50V
C216	1-163-047-00	CERAMIC CHIP	0.001MF	10%	50V
C217	1-124-438-00	ELECT	1MF	20%	50V
C218	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C219	1-163-059-00	CERAMIC CHIP	0.01MF	10%	50V
C220	1-131-383-00	TANTALUM	10MF	20%	6.3V
C221	1-163-059-00	CERAMIC CHIP	0.01MF	10%	50V
C223	1-163-189-00	CERAMIC CHIP	220PF	5%	50V
C224	1-130-832-00	FILM	0.68MF	10%	63V
C225	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C226	1-163-047-00	CERAMIC CHIP	0.001MF	5%	50V
C227	1-163-059-00	CERAMIC CHIP	0.01MF	10%	50V
CF1	1-527-795-71	FILTER, CERAMIC			
CF2	1-527-795-71	FILTER, CERAMIC			
CF3	1-567-106-00	FILTER, CERAMIC			
CF4	1-567-107-00	FILTER, CERAMIC			
CNJ1	1-562-283-00	SOCKET, CONNECTOR 14P			
CT1	1-141-232-00	CAP, TRIMAR 11PF			
CT2	1-141-232-00	CAP, TRIMAR 11PF			
D1	8-719-911-19	DIODE 1SS119			
D2	8-719-911-19	DIODE 1SS119			
D5	8-719-104-15	DIODE 1T26N			
D6	8-719-907-19	DIODE FC52M-5			
D7	8-719-907-19	DIODE FC52M-5			
D8	8-719-911-06	DIODE 1SS106			
D9	8-719-911-06	DIODE 1SS106			
D10	8-719-911-06	DIODE 1SS106			
D11	8-719-911-19	DIODE 1SS119			
D13	8-719-911-06	DIODE 1SS106			
D14	8-719-911-06	DIODE 1SS106			
D15	8-719-911-19	DIODE 1SS119			
D16	8-719-104-15	DIODE 1T26N			
D18	8-719-911-19	DIODE 1SS119			
D19	8-719-911-06	DIODE 1SS106			

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D20	8-719-911-06	DIODE 1SS106
D21	8-719-911-19	DIODE 1SS119
D22	8-719-911-19	DIODE 1SS119
D23	8-719-907-19	DIODE FC52M-5
D24	8-719-912-03	DIODE SVC201SP-BG
D25	8-719-911-19	DIODE 1SS119
D26	8-719-911-19	DIODE 1SS119
D29	8-719-911-06	DIODE 1SS106
D30	8-719-100-41	DIODE RD6.8EB2
D31	8-719-911-19	DIODE 1SS119
D32	8-719-911-19	DIODE 1SS119
D33	8-719-901-33	DIODE 1SS133
D34	8-719-911-19	DIODE 1SS119
D35	8-719-911-19	DIODE 1SS119
D36	8-719-911-19	DIODE 1SS119
D37	8-719-911-19	DIODE 1SS119
D201	8-719-100-05	DIODE 1S2837
D202	8-719-104-37	DIODE SR506D
D203	8-719-100-05	DIODE 1S2837
D204	8-719-100-05	DIODE 1S2837
D205	8-719-100-05	DIODE 1S2837
D206	8-719-100-05	DIODE 1S2837
D207	8-719-100-05	DIODE 1S2837
D208	8-719-100-05	DIODE 1S2837
D209	8-719-911-19	DIODE 1SS119
IC1	8-759-110-17	IC UPC1018C-F
IC2	8-759-100-17	IC UPC1212C
IC3	8-759-800-27	IC LA5003
IC201	8-759-100-63	IC UPB556C
IC202	8-759-101-11	IC UPD1706G-511
J1	1-507-853-00	JACK (EXT. ANT)
J2	1-507-527-00	JACK, EARPHONE (REC OUT)
J3	1-507-527-00	JACK, EARPHONE (EARPHONE)
J4	1-507-459-00	JACK (DC IN 6V)
L1	1-408-558-00	MICRO INDUCTOR 3.9UH
L2	1-408-563-00	MICRO INDUCTOR 10UH
L3	1-407-882-00	COIL
L4	1-408-571-00	MICRO INDUCTOR 47UH
L5	1-426-137-00	TRANSFORMER, HF
L6	1-408-900-11	MICRO INDUCTOR 0.82UH
L7	1-408-555-00	MICRO INDUCTOR 2.2UH
L8	1-408-555-00	MICRO INDUCTOR 2.2UH
L11	1-408-560-00	MICRO INDUCTOR 5.6UH
L12	1-422-135-00	COIL, AIR-CORE (RF)
L13	1-408-800-11	MICRO INDUCTOR 0.27UH
L14	1-408-901-11	MICRO INDUCTOR 0.56UH

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L15	1-408-562-00	MICRO INDUCTOR 8.2UH
L16	1-408-903-11	MICRO INDUCTOR 0.39UH
L19	1-426-158-00	COIL (RF)
L20	1-459-475-00	COIL (WITH CORE)
L21	1-408-557-00	MICRO INDUCTOR 3.3UH
L22	1-407-882-00	INDUCTOR 1UH
L23	1-407-882-00	INDUCTOR 1UH
L24	1-408-576-00	MICRO INDUCTOR 120UH
L25	1-408-801-11	MICRO INDUCTOR 0.22UH
L26	1-408-574-00	MICRO INDUCTOR 82UH
L27	1-408-903-00	MICRO INDUCTOR 0.39UH
ND1	1-806-646-00	DISPLAY PANEL, LIQUID CRYSTAL
Q1	8-729-119-32	TRANSISTOR 2SK193
Q2	8-729-178-62	TRANSISTOR 2SC2786-L
Q3	8-729-606-33	TRANSISTOR 2SC2603-F
Q4	8-729-204-83	TRANSISTOR 2SA1048-GR
Q5	8-729-119-32	TRANSISTOR 2SK193
Q6	8-729-204-83	TRANSISTOR 2SA1048-GR
Q7	8-729-162-00	TRANSISTOR 2SK152-2
Q8	8-729-178-54	TRANSISTOR 2SC2785
Q9	8-729-162-00	TRANSISTOR 2SK152-2
Q10	8-729-162-00	TRANSISTOR 2SK152-2
Q11	8-729-162-00	TRANSISTOR 2SK152-2
Q12	8-729-883-91	TRANSISTOR 2SC2839-D
Q13	8-729-883-92	TRANSISTOR 2SC2839
Q14	8-729-245-83	TRANSISTOR 2SC2458
Q15	8-729-245-83	TRANSISTOR 2SC2458
Q16	8-729-178-62	TRANSISTOR 2SC2786-L
Q17	8-729-178-62	TRANSISTOR 2SC2786-L
Q18	8-729-178-62	TRANSISTOR 2SC2786-L
Q19	8-729-178-63	TRANSISTOR 2SC2786-K
Q20	8-729-204-83	TRANSISTOR 2SA1048-GR
Q21	8-729-204-83	TRANSISTOR 2SA1048-GR
Q22	8-729-204-83	TRANSISTOR 2SA1048-GR
Q25	8-729-245-83	TRANSISTOR 2SC2458-GR
Q26	8-729-204-83	TRANSISTOR 2SA1048-GR
Q27	8-729-204-83	TRANSISTOR 2SA1048-GR
Q28	8-729-204-83	TRANSISTOR 2SA1048-GR
Q29	8-729-204-83	TRANSISTOR 2SA1048-GR
Q30	8-729-245-83	TRANSISTOR 2SC2458
Q31	8-729-204-83	TRANSISTOR 2SA1048-GR
Q32	8-729-801-83	TRANSISTOR 2SB1013

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
Q33	8-729-800-83	TRANSISTOR 2SB808			
Q34	8-729-218-42	TRANSISTOR 2SK184			
Q201	8-729-100-66	TRANSISTOR 2SC1623			
Q202	8-729-100-66	TRANSISTOR 2SC1623			
Q203	8-729-100-66	TRANSISTOR 2SC1623			
Q204	8-729-100-66	TRANSISTOR 2SC1623			
Q205	8-729-220-93	TRANSISTOR 2SK209-Y			
Q206	8-729-100-66	TRANSISTOR 2SC1623			
R1	1-247-871-00	CARBON	47K	5%	1/6W
R2	1-247-804-00	CARBON	75	5%	1/6W
R3	1-247-827-00	CARBON	680	5%	1/6W
R4	1-247-805-00	CARBON	82	5%	1/6W
R5	1-247-839-00	CARBON	2.2K	5%	1/6W
R6	1-247-845-00	CARBON	3.9K	5%	1/6W
R8	1-247-855-00	CARBON	10K	5%	1/6W
R9	1-247-831-00	CARBON	1K	5%	1/6W
R10	1-247-879-00	CARBON	100K	5%	1/6W
R11	1-247-891-00	CARBON	330K	5%	1/6W
R12	1-247-903-00	CARBON	1M	5%	1/6W
R13	1-247-819-00	CARBON	330	5%	1/6W
R14	1-247-893-00	CARBON	390K	5%	1/6W
R15	1-247-843-00	CARBON	3.3K	5%	1/6W
R16	1-247-825-00	CARBON	560	5%	1/6W
R17	1-247-855-00	CARBON	10K	5%	1/6W
R18	1-247-863-00	CARBON	22K	5%	1/6W
R19	1-247-849-00	CARBON	5.6K	5%	1/6W
R20	1-247-831-00	CARBON	1K	5%	1/6W
R21	1-247-831-00	CARBON	1K	5%	1/6W
R22	1-247-841-00	CARBON	2.7K	5%	1/6W
R23	1-247-851-00	CARBON	6.8K	5%	1/6W
R24	1-247-851-00	CARBON	6.8K	5%	1/6W
R25	1-247-845-00	CARBON	3.9K	5%	1/6W
R26	1-247-831-00	CARBON	1K	5%	1/6W
R27	1-247-831-00	CARBON	1K	5%	1/6W
R28	1-247-893-00	CARBON	390K	5%	1/6W
R29	1-247-855-00	CARBON	10K	5%	1/6W
R30	1-247-855-00	CARBON	10K	5%	1/6W
R31	1-247-863-00	CARBON	22K	5%	1/6W
R32	1-247-881-00	CARBON	120K	5%	1/6W
R33	1-247-831-00	CARBON	1K	5%	1/6W
R40	1-247-897-00	CARBON	560K	5%	1/6W
R42	1-247-807-00	CARBON	100	5%	1/6W
R43	1-247-807-00	CARBON	100	5%	1/6W
R44	1-247-895-00	CARBON	470K	5%	1/6W

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CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC,
UPD···: μPD···

ELECTRICAL PARTS

Ref.No.	Part No.	Description
L15	1-408-562-00	MICRO INDUCTOR 8.2UH
L16	1-408-903-11	MICRO INDUCTOR 0.39UH
L19	1-426-158-00	COIL (RF)
L20	1-459-475-00	COIL (WITH CORE)
L21	1-408-557-00	MICRO INDUCTOR 3.3UH
L22	1-407-882-00	INDUCTOR 1UH
L23	1-407-882-00	INDUCTOR 1UH
L24	1-408-576-00	MICRO INDUCTOR 120UH
L25	1-408-801-11	MICRO INDUCTOR 0.22UH
L26	1-408-574-00	MICRO INDUCTOR 82UH
L27	1-408-903-00	MICRO INDUCTOR 0.39UH
ND1	1-806-646-00	DISPLAY PANEL, LIQUID CRYSTAL
Q1	8-729-119-32	TRANSISTOR 2SK193
Q2	8-729-178-62	TRANSISTOR 2SC2786-L
Q3	8-729-606-33	TRANSISTOR 2SC2603-F
Q4	8-729-204-83	TRANSISTOR 2SA1048-GR
Q5	8-729-119-32	TRANSISTOR 2SK193
Q6	8-729-204-83	TRANSISTOR 2SA1048-GR
Q7	8-729-162-00	TRANSISTOR 2SK152-2
Q8	8-729-178-54	TRANSISTOR 2SC2785
Q9	8-729-162-00	TRANSISTOR 2SK152-2
Q10	8-729-162-00	TRANSISTOR 2SK152-2
Q11	8-729-162-00	TRANSISTOR 2SK152-2
Q12	8-729-883-91	TRANSISTOR 2SC2839-D
Q13	8-729-883-92	TRANSISTOR 2SC2839
Q14	8-729-245-83	TRANSISTOR 2SC2458
Q15	8-729-245-83	TRANSISTOR 2SC2458
Q16	8-729-178-62	TRANSISTOR 2SC2786-L
Q17	8-729-178-62	TRANSISTOR 2SC2786-L
Q18	8-729-178-62	TRANSISTOR 2SC2786-L
Q19	8-729-178-63	TRANSISTOR 2SC2786-K
Q20	8-729-204-83	TRANSISTOR 2SA1048-GR
Q21	8-729-204-83	TRANSISTOR 2SA1048-GR
Q22	8-729-204-83	TRANSISTOR 2SA1048-GR
Q25	8-729-245-83	TRANSISTOR 2SC2458-GR
Q26	8-729-204-83	TRANSISTOR 2SA1048-GR
Q27	8-729-204-83	TRANSISTOR 2SA1048-GR
Q28	8-729-204-83	TRANSISTOR 2SA1048-GR
Q29	8-729-204-83	TRANSISTOR 2SA1048-GR
Q30	8-729-245-83	TRANSISTOR 2SC2458
Q31	8-729-204-83	TRANSISTOR 2SA1048-GR
Q32	8-729-801-83	TRANSISTOR 2SB1013

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
Q33	8-729-800-83	TRANSISTOR 2SB808			
Q34	8-729-218-42	TRANSISTOR 2SK184			
Q201	8-729-100-66	TRANSISTOR 2SC1623			
Q202	8-729-100-66	TRANSISTOR 2SC1623			
Q203	8-729-100-66	TRANSISTOR 2SC1623			
Q204	8-729-100-66	TRANSISTOR 2SC1623			
Q205	8-729-220-93	TRANSISTOR 2SK209-Y			
Q206	8-729-100-66	TRANSISTOR 2SC1623			
R1	1-247-871-00	CARBON	47K	5%	1/6W
R2	1-247-804-00	CARBON	75	5%	1/6W
R3	1-247-827-00	CARBON	680	5%	1/6W
R4	1-247-805-00	CARBON	82	5%	1/6W
R5	1-247-839-00	CARBON	2.2K	5%	1/6W
R6	1-247-845-00	CARBON	3.9K	5%	1/6W
R8	1-247-855-00	CARBON	10K	5%	1/6W
R9	1-247-831-00	CARBON	1K	5%	1/6W
R10	1-247-879-00	CARBON	100K	5%	1/6W
R11	1-247-891-00	CARBON	330K	5%	1/6W
R12	1-247-903-00	CARBON	1M	5%	1/6W
R13	1-247-819-00	CARBON	330	5%	1/6W
R14	1-247-893-00	CARBON	390K	5%	1/6W
R15	1-247-843-00	CARBON	3.3K	5%	1/6W
R16	1-247-825-00	CARBON	560	5%	1/6W
R17	1-247-855-00	CARBON	10K	5%	1/6W
R18	1-247-863-00	CARBON	22K	5%	1/6W
R19	1-247-849-00	CARBON	5.6K	5%	1/6W
R20	1-247-831-00	CARBON	1K	5%	1/6W
R21	1-247-831-00	CARBON	1K	5%	1/6W
R22	1-247-841-00	CARBON	2.7K	5%	1/6W
R23	1-247-851-00	CARBON	6.8K	5%	1/6W
R24	1-247-851-00	CARBON	6.8K	5%	1/6W
R25	1-247-845-00	CARBON	3.9K	5%	1/6W
R26	1-247-831-00	CARBON	1K	5%	1/6W
R27	1-247-831-00	CARBON	1K	5%	1/6W
R28	1-247-893-00	CARBON	390K	5%	1/6W
R29	1-247-855-00	CARBON	10K	5%	1/6W
R30	1-247-855-00	CARBON	10K	5%	1/6W
R31	1-247-863-00	CARBON	22K	5%	1/6W
R32	1-247-881-00	CARBON	120K	5%	1/6W
R33	1-247-831-00	CARBON	1K	5%	1/6W
R40	1-247-897-00	CARBON	560K	5%	1/6W
R42	1-247-807-00	CARBON	100	5%	1/6W
R43	1-247-807-00	CARBON	100	5%	1/6W
R44	1-247-895-00	CARBON	470K	5%	1/6W

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MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC,
UPD···: μPD···

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R45	1-247-847-00	CARBON	4.7K	5%	1/6W
R46	1-247-855-00	CARBON	10K	5%	1/6W
R48	1-247-879-00	CARBON	100K	5%	1/6W
R49	1-247-819-00	CARBON	330	5%	1/6W
R50	1-247-795-00	CARBON	33	5%	1/6W
R51	1-247-807-00	CARBON	100	5%	1/6W
R52	1-247-827-00	CARBON	680	5%	1/6W
R55	1-247-841-00	CARBON	2.7K	5%	1/6W
R56	1-247-843-00	CARBON	3.3K	5%	1/6W
R57	1-247-807-00	CARBON	100	5%	1/6W
R58	1-247-807-00	CARBON	100	5%	1/6W
R59	1-247-831-00	CARBON	1K	5%	1/6W
R60	1-247-851-00	CARBON	6.8K	5%	1/6W
R61	1-247-871-00	CARBON	47K	5%	1/6W
R62	1-247-867-00	CARBON	33K	5%	1/6W
R63	1-247-879-00	CARBON	100K	5%	1/6W
R64	1-247-863-00	CARBON	22K	5%	1/6W
R65	1-247-885-00	CARBON	180K	5%	1/6W
R66	1-247-845-00	CARBON	3.9K	5%	1/6W
R67	1-247-835-00	CARBON	1.5K	5%	1/6W
R68	1-247-831-00	CARBON	1K	5%	1/6W
R69	1-247-847-00	CARBON	4.7K	5%	1/6W
R70	1-247-869-00	CARBON	39K	5%	1/6W
R71	1-247-867-00	CARBON	33K	5%	1/6W
R72	1-247-801-00	CARBON	56	5%	1/6W
R73	1-247-819-00	CARBON	330	5%	1/6W
R74	1-247-819-00	CARBON	330	5%	1/6W
R75	1-247-831-00	CARBON	1K	5%	1/6W
R77	1-247-807-00	CARBON	100	5%	1/6W
R78	1-247-867-00	CARBON	33K	5%	1/6W
R80	1-247-855-00	CARBON	10K	5%	1/6W
R81	1-247-889-00	CARBON	270K	5%	1/6W
R82	1-247-837-00	CARBON	1.8K	5%	1/6W
R83	1-247-847-00	CARBON	4.7K	5%	1/6W
R84	1-247-851-00	CARBON	6.8K	5%	1/6W
R85	1-247-851-00	CARBON	6.8K	5%	1/6W
R86	1-247-841-00	CARBON	2.7K	5%	1/6W
R87	1-247-871-00	CARBON	47K	5%	1/6W
R88	1-247-899-00	CARBON	680K	5%	1/6W
R89	1-247-819-00	CARBON	330	5%	1/6W
R90	1-247-855-00	CARBON	10K	5%	1/6W
R91	1-247-871-00	CARBON	47K	5%	1/6W
R94	1-247-791-00	CARBON	22	5%	1/6W
R95	1-247-801-00	CARBON	56	5%	1/6W
R96	1-247-831-00	CARBON	1K	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R97	1-247-831-00	CARBON	1K	5%	1/6W
R98	1-247-853-00	CARBON	8.2K	5%	1/6W
R99	1-247-795-00	CARBON	33	5%	1/6W
R100	1-247-861-00	CARBON	18K	5%	1/6W
R101	1-247-831-00	CARBON	1K	5%	1/6W
R102	1-247-855-00	CARBON	10K	5%	1/6W
R103	1-247-843-00	CARBON	3.3K	5%	1/6W
R104	1-247-831-00	CARBON	1K	5%	1/6W
R105	1-247-855-00	CARBON	10K	5%	1/6W
R119	1-247-815-00	CARBON	220	5%	1/6W
R120	1-247-817-00	CARBON	270	5%	1/6W
R121	1-247-873-00	CARBON	56K	5%	1/6W
R122	1-247-795-00	CARBON	33	5%	1/6W
R123	1-247-833-00	CARBON	1.2K	5%	1/6W
R124	1-247-815-00	CARBON	220	5%	1/6W
R125	1-247-827-00	CARBON	680	5%	1/6W
R126	1-247-855-00	CARBON	10K	5%	1/6W
R127	1-247-873-00	CARBON	56K	5%	1/6W
R128	1-247-807-00	CARBON	100	5%	1/6W
R129	1-247-875-00	CARBON	68K	5%	1/6W
R130	1-247-835-00	CARBON	1.5K	5%	1/6W
R131	1-247-879-00	CARBON	100K	5%	1/6W
R132	1-247-807-00	CARBON	100	5%	1/6W
R133	1-247-843-00	CARBON	3.3K	5%	1/6W
R134	1-247-843-00	CARBON	3.3K	5%	1/6W
R135	1-247-823-00	CARBON	470	5%	1/6W
R136	1-247-845-00	CARBON	3.9K	5%	1/6W
R137	1-247-841-00	CARBON	2.7K	5%	1/6W
R138	1-247-846-00	CARBON	4.3K	5%	1/6W
R139	1-247-835-00	CARBON	1.5K	5%	1/6W
R141	1-247-863-00	CARBON	22K	5%	1/6W
R142	1-247-835-00	CARBON	1.5K	5%	1/6W
R143	1-247-815-00	CARBON	220	5%	1/6W
R150	1-247-868-00	CARBON	36K	5%	1/6W
R151	1-247-862-00	CARBON	20K	5%	1/6W
R152	1-247-868-00	CARBON	36K	5%	1/6W
R157	1-247-889-00	CARBON	270K	5%	1/6W
R158	1-247-855-00	CARBON	10K	5%	1/6W
R159	1-247-855-00	CARBON	10K	5%	1/6W
R160	1-247-855-00	CARBON	10K	5%	1/6W
R161	1-247-855-00	CARBON	10K	5%	1/6W

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- MMH : mH, UH : μH

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In each case, U : μ, for example:
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UPD···: μPD···

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R162	1-247-855-00	CARBON	10K	5%	1/6W
R163	1-247-855-00	CARBON	10K	5%	1/6W
R164	1-247-847-00	CARBON	4.7K	5%	1/6W
R165	1-247-855-00	CARBON	10K	5%	1/6W
R166	1-247-855-00	CARBON	10K	5%	1/6W
R167	1-247-831-00	CARBON	1K	5%	1/6W
R168	1-247-795-00	CARBON	33	5%	1/6W
R169	1-247-831-00	CARBON	1K	5%	1/6W
R201	1-247-855-00	CARBON	10K	5%	1/6W
R202	1-247-871-00	CARBON	47K	5%	1/6W
R203	1-247-903-00	CARBON	1M	5%	1/6W
R204	1-247-895-00	CARBON	470K	5%	1/6W
R205	1-247-895-00	CARBON	470K	5%	1/6W
R206	1-247-855-00	CARBON	10K	5%	1/6W
R207	1-247-871-00	CARBON	47K	5%	1/6W
R208	1-247-871-00	CARBON	47K	5%	1/6W
R209	1-247-871-00	CARBON	47K	5%	1/6W
R210	1-247-855-00	CARBON	10K	5%	1/6W
R211	1-247-855-00	CARBON	10K	5%	1/6W
R212	1-247-855-00	CARBON	10K	5%	1/6W
R213	1-247-855-00	CARBON	10K	5%	1/6W
R214	1-247-855-00	CARBON	10K	5%	1/6W
R215	1-247-855-00	CARBON	10K	5%	1/6W
R216	1-247-855-00	CARBON	10K	5%	1/6W
R217	1-247-855-00	CARBON	10K	5%	1/6W
R218	1-247-855-00	CARBON	10K	5%	1/6W
R219	1-247-855-00	CARBON	10K	5%	1/6W
R220	1-247-855-00	CARBON	10K	5%	1/6W
R221	1-247-855-00	CARBON	10K	5%	1/6W
R222	1-247-855-00	CARBON	10K	5%	1/6W
R223	1-247-855-00	CARBON	10K	5%	1/6W
R224	1-247-855-00	CARBON	10K	5%	1/6W
R225	1-247-895-00	CARBON	470K	5%	1/6W
R226	1-247-895-00	CARBON	470K	5%	1/6W
R227	1-247-881-00	CARBON	120K	5%	1/6W
R228	1-247-827-00	CARBON	680	5%	1/6W
R229	1-247-881-00	CARBON	120K	5%	1/6W
R230	1-247-903-00	CARBON	1M	5%	1/6W
R231	1-247-855-00	CARBON	10K	5%	1/6W
R232	1-247-803-00	CARBON	68	5%	1/6W
R233	1-247-795-00	CARBON	33	5%	1/6W
R234	1-247-831-00	CARBON	1K	5%	1/6W
R235	1-247-855-00	CARBON	10K	5%	1/6W
R236	1-247-837-00	CARBON	1.8K	5%	1/6W
R237	1-247-831-00	CARBON	1K	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R238	1-247-843-00	CARBON	3.3K	5%	1/6W
R239	1-247-855-00	CARBON	10K	5%	1/6W
R240	1-247-855-00	CARBON	10K	5%	1/6W
RV1	1-230-042-00	RES, VAR, SLIDE 20K (VOLUME)			
RV2	1-230-065-00	RES, VAR, CARBON 100K (FINE TUNING)			
S1	1-554-462-00	SWITCH, SLIDE (SENS)			
S2	1-553-989-00	SWITCH, SLIDE (AM MODE)			
S3	1-554-078-00	SWITCH, SLIDE (TONE)			
S5	1-553-510-00	SWITCH, SLIDE (MAIN POWER)			
S6	1-554-371-00	SWITCH, TACT (TIME SET)			
S7	1-554-604-00	SWITCH, RUBBER KEY (NUMBERED KEYS)			
S8	1-553-977-00	SWITCH, SLIDE (9KHz-10KHz)			
SP	1-502-631-00	SPEAKER			
T1	1-459-458-00	COIL (WITH CORE)			
T3	1-404-126-00	IFT (SMALL TYPE)			
T4	1-404-130-00	TRANSFORMER, DISCRI			
T5	1-404-131-00	TRANSFOTMER, DISCRI			
T6	1-404-127-00	IFT (SMALL TYPE)			
T7	1-426-136-00	TRANSFORMER, HF			
T8	1-404-448-00	TRANSFORMER, IF			
T9	1-404-191-00	TRANSFORMER, IF			
T10	1-404-447-00	TRANSFORMER, IF			
T11	1-406-052-00	COIL (OSC)			
X1	1-567-108-00	VIBRATOR, CRYSTAL			
X2	1-567-105-00	OSCILLATOR, CERAMIC			
X3	1-567-109-00	VIBRATOR, CRYSTAL			
XF1	1-527-372-00	FILTER, CRYSTAL			

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:

MF:μF, PF:μμF.

RESISTORS

- All resistors are in ohms.
- F : nonflammable

COILS

- MMH : mH, UH : μH

SEMICONDUCTORS

In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC,
UPD···: μPD···

ICF-2002

SERVICE MANUAL

US Model
Canadian Model

No. 1
October, 1984

SUPPLEMENT

● File this supplement with the service manual.

Subject:
1. ADDITIONAL COLOR VARIATION
2. CIRCUIT CHANGE

1. Additional Color Variation

Add the following parts list in the service manual.

Color Variation Parts List

No.	Description	Part No.	
		Silver	Black
15	KNOB (FINE)	3-891-803-00	3-891-803-11
20	BUTTON (E)	3-891-808-00	3-891-808-11
25	STRAP, HAND	3-891-813-00	3-891-813-11
29	LID, BATTERY CASE	3-891-817-00	3-891-817-11
30	KNOB (VOL)	3-891-818-00	3-891-818-11
31	KNOB (TONE)	3-891-819-00	3-891-819-11
32	KNOB (MODE)	3-891-820-00	3-891-820-11
33	KNOB (SENS)	3-891-821-00	3-891-821-11
42	CHASSIS	3-891-843-00	3-891-843-11
46	HOLDER, LED	3-891-872-00	3-891-872-11
48	LID, REAR CABINET	3-891-874-00	3-891-874-11
56	SCREW +P 3X25 TYPE-2 NON-SLIT	7-685-152-14	7-685-152-19
60	FRONT PANEL ASSY	X-3891-809-1	X-3891-831-1
63	LABEL, MODEL NUMBER (U)	3-891-871-00	3-891-871-11

2. Circuit Change

The circuit has been changed to reduce the drift of 2nd local oscillator and location of some parts on printed circuit board has been changed.

Changed Parts List

Ref.No.	Former Parts Description	New Parts Part No.	New Parts Description	Remarks
C3	CERAMIC 0.003MF	1-161-028-00	CERAMIC 0.0022MF	CHANGED
C58	ELECT 47MF 6.3V	1-123-613-00	ELECT 3.3MF 50V	CHANGED
L1	MICRO INDUCTOR 3.9UH	1-408-560-00	MICRO INDUCTOR 5.6UH	CHANGED
R4	CARBON 82 1/6W	1-247-809-00	CARBON 120 1/6W	CHANGED
R5	CARBON 2.2k 1/6W	1-247-835-00	CARBON 1.5k 1/6W	CHANGED
R39	.....	1-247-799-00	CARBON 47 1/6W	ADDED
R63	CARBON 100k 1/6W	.....	.....	DELETED
R65	CARBON 180k 1/6W	.....	.....	DELETED
R67	CARBON 1.5k 1/6W	1-247-807-00	CARBON 100 1/6W	CHANGED
R168	CARBON 33 1/6W	1-247-815-00	CARBON 220 1/6W	CHANGED

FM/LW/MW/SW
PLL SYNTHESIZED RECEIVER

Sony Corporation

SONY®

9-951-280-81

English
84J0247-1
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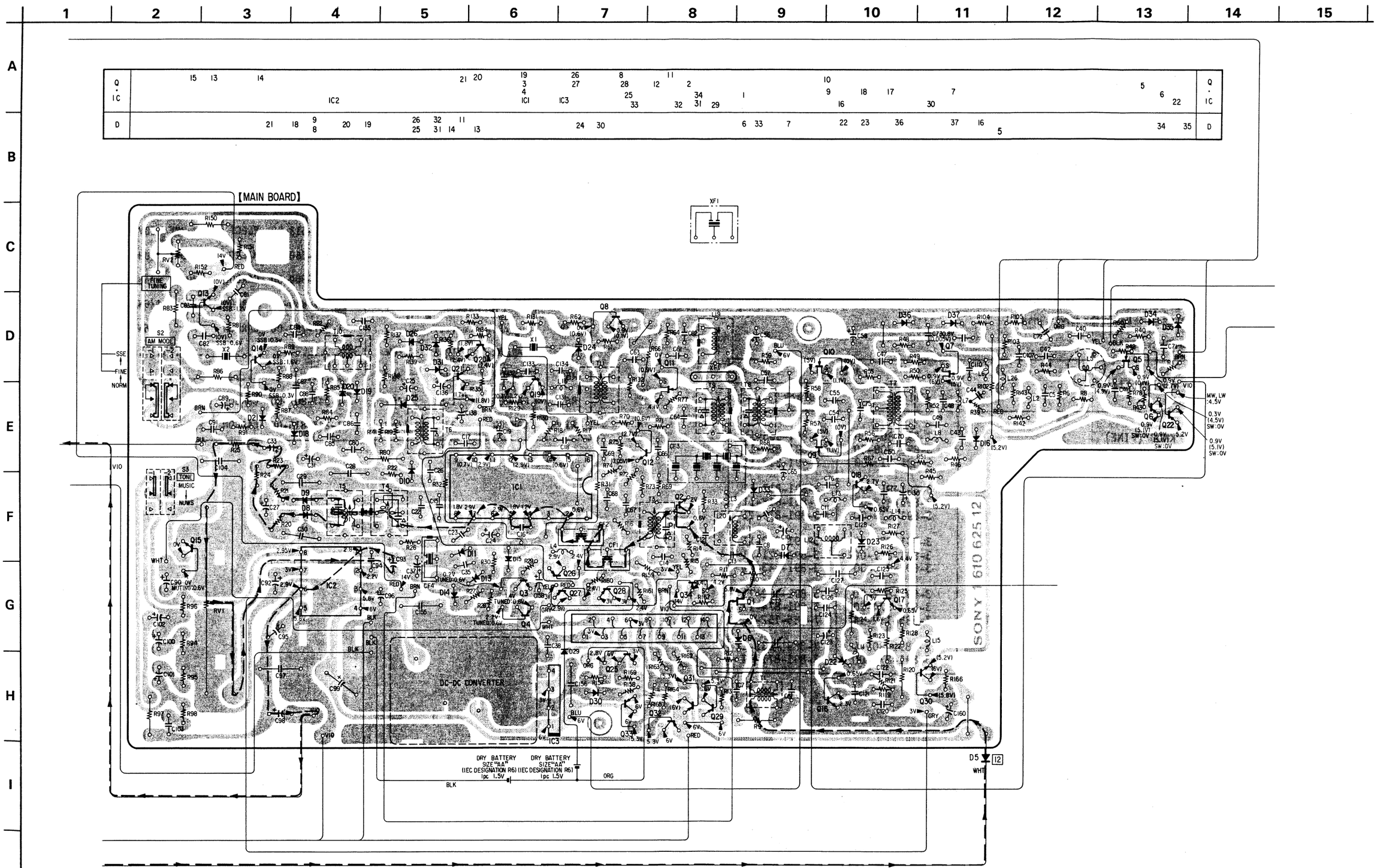
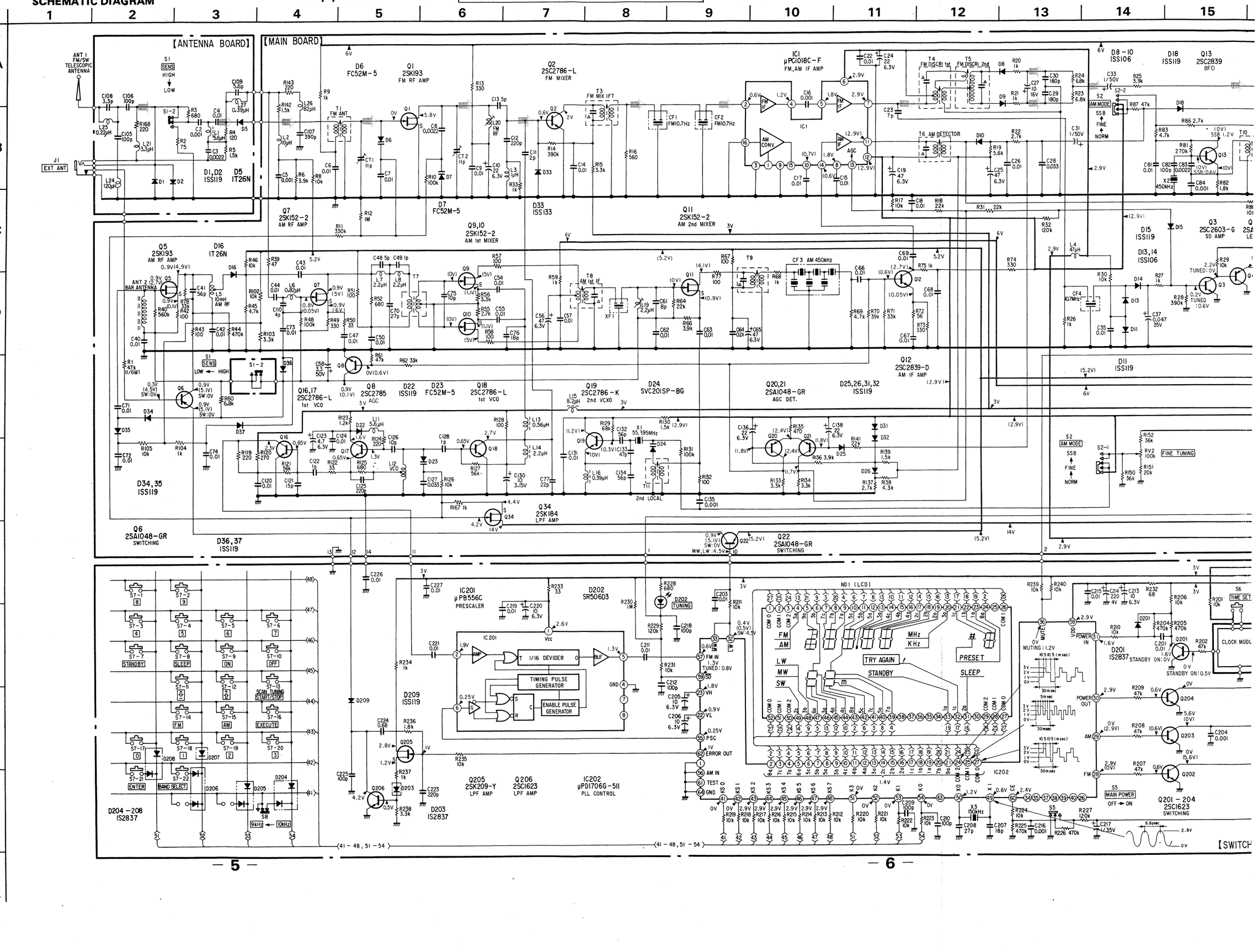
TR

MOUNTING DIAGRAM
– Conductor Side –



SCHEMATIC DIAGRAM



7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23